194 Grant or Assistance Application

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Grant or Assistance Application Transaction Set (194) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by organizations submitting applications for grants, cooperative agreements, and other assistance. These applications will typically include project, budget, personnel, descriptive, and other related data.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BGN	Beginning Segment	M	1		
	030	DTM	Date/Time Reference	O	>1		
Not Used	040	LDT	Lead Time	O	>1		
	050	PWK	Paperwork	O	>1		
			LOOP ID - N9			>1	
	060	N9	Reference Identification	O	1		
Not Used	070	L11	Business Instructions	O	>1		
	080	MTX	Text	O	>1		
			LOOP ID - NM1			>1	
Must Use	090	NM1	Individual or Organizational Name	O	1		
	100	N2	Additional Name Information	O	2		
	110	N3	Address Information	O	2		
	120	N4	Geographic Location	O	1		
	130	N9	Reference Identification	O	>1		
	140	PER	Administrative Communications Contact	O	>1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			>1	
Must Use	010	HL	Hierarchical Level	M	1		
	020	QTY	Quantity	O	>1		
	030	AMT	Monetary Amount	O	>1		
	050	DTM	Date/Time Reference	O	>1		
	060	PAM	Period Amount	O	>1		
	070	HSD	Health Care Services Delivery	O	>1		
	080	NX1	Property or Entity Identification	O	>1		
	090	YNQ	Yes/No Question	O	>1		
			LOOP ID - N9			>1	
	100	N9	Reference Identification	O	1		
	105	L11	Business Instructions	O	>1		
	110	MTX	Text	O	>1		

				LOOP ID - INX			>1
	120	INX		Index Detail	O	1	
Must Use	130	K3		File Information	M	>1	
				LOOP ID - PO1			>1
Not Used	140	PO1		Baseline Item Data	O	1	
Not Used	160	MTX		Text	O	>1	
				LOOP ID - PPL			>1
	170	PPL		Price Support Data	O	1	
Not Used	180	REF		Reference Identification	O	>1	
				LOOP ID - PD			>1
	190	PD		Pricing Data	O	1	
	200	PDD		Pricing Data Detail	O	>1	
				LOOP ID - PL			>1
Not Used	210	PL		Proposal Cost Logic	O	1	
Not Used	220	REF		Reference Identification	O	>1	
Not Used	230	AMT		Monetary Amount	O	1	
Not Used	240	PCT		Percent Amounts	O	1	
Not Used	250	QTY		Quantity	O	1	
Not Used	260	NTE		Note/Special Instruction	O	>1	
				LOOP ID - PD			>1
Not Used	270	PD		Pricing Data	O	1	
Not Used	280	SPI		Specification Identifier	O	1	
Not Used	290	REF		Reference Identification	O	>1	
Not Used	300	PDD		Pricing Data Detail	O	>1	
Not Used	310	MTX		Text	O	>1	
Not Used	320	DTM		Date/Time Reference	O	10	
				LOOP ID - LX			>1
	330	LX		Assigned Number	O	1	
	340	NM1		Individual or Organizational Name	O	1	
	350	N2		Additional Name Information	O	2	
	360	N3		Address Information	O	2	
	370	N4		Geographic Location	O	1	
	375	PER		Administrative Communications Contact	O	>1	
	380	DMG		Demographic Information	O	>1	
	390	EMS		Employment Position	O	1	
				LOOP ID - N9			>1
	400	N9		Reference Identification	O	1	
Not Used	405	L11		Business Instructions	O	>1	
	410	MTX		Text	O	>1	
				LOOP ID - DEG			>1
	420	DEG		Degree Record	O	1	
	430	FOS		Field of Study	O	>1	
	440	N1		Name	O	>1	
				LOOP ID - K2			>1
Not Used	450	K2		Administrative Message	O	1	
Not Used	460	N9		Reference Identification	O	>1	
Not Used	470	NM1		Individual or Organizational Name	O	>1	

Must Use   480   SE   Transaction Set Trailer   M   1

Segment:	**ST** **Transaction Set Header**
Position:	010
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Syntax Notes:	
Semantic Notes:	**1** The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	ST01	143	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			194 X12.372 Grant or Assistance Application		
Must Use	ST02	329	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

Segment:	**BGN** Beginning Segment	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of a transaction set	
Syntax Notes:	**1**	If BGN05 is present, then BGN04 is required.
Semantic Notes:	**1**	BGN02 is the transaction set reference number.
	2	BGN03 is the transaction set date.
	3	BGN04 is the transaction set time.
	4	BGN05 is the transaction set time qualifier.
	5	BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BGN01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**

Code identifying purpose of transaction set

00	Original
01	Cancellation
05	Replace
07	Duplicate
24	Draft

Must Use	**BGN02**	**127**	**Reference Identification**	**M**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Must Use	**BGN03**	**373**	**Date**	**M**	**DT 6/6**

Date (YYMMDD)

Must Use	**BGN04**	**337**	**Time**	**X**	**TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Must Use	**BGN05**	**623**	**Time Code**	**O**	**ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

LT	Local Time
UT	Universal Time Coordinate

	BGN06	**127**	**Reference Identification**	**O**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Must Use	**BGN07**	**640**	**Transaction Type Code**	**O**	**ID 2/2**

Code specifying the type of transaction

07	Budget
65	Award Notification
6A	Accomplishment Based Renewal
6C	Competitive Renewal

		6N	Non-competitive Renewal
		6R	Resubmission
		6S	Supplemental
		FM	Funding Modification
		S4	Submission

BGN08   **306**   **Action Code**   **O**   **ID 1/2**

Code indicating type of action

		2	Change (Update)
		A6	Modified
		AA	Award
		AD	Decrease in Amount
		AI	Increase in Amount

BGN09   **786**   **Security Level Code**   **O**   **ID 2/2**

Code indicating the level of confidentiality assigned by the sender to the information following

| | | 92 | Government Confidential |
| | | 93 | Government Secret |

Segment:	**DTM** Date/Time Reference		
Position:	030		
Loop:			
Level:	Heading		
Usage:	Optional		
Max Use:	>1		
Purpose:	To specify pertinent dates and times		
Syntax Notes:	**1**	At least one of DTM02 DTM03 or DTM06 is required.	
	2	If either DTM06 or DTM07 is present, then the other is required.	
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			036	Expiration	
				Date coverage expires	
			145	Opening Date	
Must Use	DTM02	373	**Date**	**X**	**DT 6/6**
			Date (YYMMDD)		
Not Used	DTM03	337	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
Not Used	DTM04	623	**Time Code**	**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		
	DTM05	624	**Century**	**O**	**N0 2/2**
			The first two characters in the designation of the year (CCYY)		
Not Used	DTM06	1250	**Date Time Period Format Qualifier**	**X**	**ID 2/3**
			Code indicating the date format, time format, or date and time format		
Not Used	DTM07	1251	**Date Time Period**	**X**	**AN 1/35**
			Expression of a date, a time, or range of dates, times or dates and times		

Segment:	**PWK** Paperwork
Position:	050
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify the type and transmission of paperwork or supporting information
Syntax Notes:	1 If either PWK05 or PWK06 is present, then the other is required.
Semantic Notes:	
Comments:	1 PWK05 and PWK06 may be used to identify the addressee by a code number.
	2 PWK07 may be used to indicate special information to be shown on the specified report.
	3 PWK08 may be used to indicate action pertaining to a report.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PWK01	755	**Report Type Code**	M ID 2/2

Code indicating the title or contents of a document, report or supporting item

AE   Attachment

Use to indicate that SOME supplementary technical information is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code SD.

C1   Cost Data Summary

Use to indicate that the cost and price (budget) data is being provided by means other than this transaction set.

SD   Support Data for a Request for Quote

Use to indicate that ALL technical data is being provided by means other than this transaction set. Use of this code is mutually exclusive with use of code AE.

	Ref. Des.	Data Element	Name	Attributes
Must Use	PWK02	756	**Report Transmission Code**	O ID 1/2

Code defining timing, transmission method or format by which reports are to be sent

BE   By Mail and Electronically

Use to indicate E-Mail.

BM   By Mail

Use to indicate transmittal via the United States Postal Service (USPS).

CF   Courier

Use to indicate transmittal via commercial express courier. Use in conjunction with PWK04/05.

DA   Data

Use to indicate other forms of electronic transfer. When used, identify the other form in PWK07.

EL   Electronically Only

> *Use to indicate that data was sent by a separate EDI transaction set. When used, identify the unique number of the transaction set in N902 of the 1/N9/060 segment citing code TN in N901.*

| | | FX | By Fax |
| | | IA | Electronic Image |

> *Use to indicate the World Wide Web. When used, provide the Universal Resource Locator (URL) where information is to be obtained in PWK07.*

Not Used   PWK03   757   Report Copies Needed   O   N0 1/2

The number of copies of a report that should be sent to the addressee

PWK04   98   Entity Identifier Code   O   ID 2/2

Code identifying an organizational entity, a physical location, or an individual

CA   Carrier

> *Use in conjunction with PWK02 code CF, PWK05/06 to identify the carrier.*

PWK05   66   Identification Code Qualifier   X   ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

> *While the Federal EDI program uses the Data Universal Numbering System (DUNS) and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.*

1   D-U-N-S Number, Dun & Bradstreet

> *Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.*

9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

> *Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.*

33   Commercial and Government Entity (CAGE)

PWK06   67   Identification Code   X   AN 2/20

Code identifying a party or other code

> *Use to identify the DUNS number, DUNS+4 number or CAGE code of the carrier.*

PWK07   352   Description   O   AN 1/80

A free-form description to clarify the related data elements and their content

> *1. When PWK02 is code DA, use to identify the other form of electronic transfer.*
>
> *2. When PWK02 is code IA, use to provide the Universal Resource Locator (URL) where information is to be obtained.*

Not Used   PWK08   C002   Actions Indicated   O

Actions to be performed on the piece of paperwork identified

Not Used   C00201   704   Paperwork/Report Action Code   M   ID 1/2

Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required

Not Used   C00202   704   Paperwork/Report Action Code   O   ID 1/2

Code specifying how the paperwork or report that is identified in the PWK

segment relates to the transaction set or to identify the action that is required

Not Used   C00203   704   Paperwork/Report Action Code   O   ID 1/2
Code specifying how the paperwork or report that is identified in the PWK
segment relates to the transaction set or to identify the action that is required

Not Used   C00204   704   Paperwork/Report Action Code   O   ID 1/2
Code specifying how the paperwork or report that is identified in the PWK
segment relates to the transaction set or to identify the action that is required

Not Used   C00205   704   Paperwork/Report Action Code   O   ID 1/2
Code specifying how the paperwork or report that is identified in the PWK
segment relates to the transaction set or to identify the action that is required

Not Used   PWK09   1525   Request Category Code   O   ID 1/2
Code indicating a type of request

Segment:	**N9** Reference Identification		
Position:	060		
Loop:	N9		
Level:	Heading		
Usage:	Optional		
Max Use:	1		
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier		
Syntax Notes:	1	At least one of N902 or N903 is required.	
	2	If N906 is present, then N905 is required.	
	3	If either C04003 or C04004 is present, then the other is required.	
	4	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	N906 reflects the time zone which the time reflects.	
	2	N907 contains data relating to the value cited in N902.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N901	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

2S   Catalog

Use to indicate the primary Catalog of Federal Domestic Assistance program number applicable to this application.

4W   Study

Radio Engineering Study

When BGN07 is code 6A, 6C, 6N, 6R, or S4, use is REQUIRED to indicate the application title. Cite the word TITLE in N903 and use the 1/MTX/080 to cite the title.

CT   Contract Number

When BGN07 is code 65, 6A, 6C, 6N, 6S, or FM, use is REQUIRED to indicate the award identification.

KS   Solicitation

A discreet number assigned by the purchasing activity to differentiate between different solicitations

Use to indicate the title of the solicitation or announcement identified in BGN06. Cite the word SOURCE in N903 and use the 1/MTX/080 to cite the solicitation title.

P4   Project Code

Use to indicate the project number applicable to the application.

PID   Program Identification Number

Use to indicate a code identifying a Federal program, or if a code is not known, the Federal program name. Use of a code is preferred. Cite the code in N902; cite the program name in N903.

TN   Transaction Reference Number

Use to indicate the unique number of a related transaction set. When used, cite code 87 in N907-1 and the X12 transaction set numeric identifier in

			N907-2.		
		WK	Type of Science Code		

1. Use multiple occurrences as needed to indicate in N902 the keycode for area of science to which the application applies. The keycodes are found in the Grant Keyword Thesaurus.

2. If a code cannot be found for the area of science applicable to this application, use N903 to describe the subject.

	N902	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	N903	369	**Free-form Description**	X	AN 1/45

Free-form descriptive text

Not Used	N904	373	**Date**	O	DT 6/6

Date (YYMMDD)

Not Used	N905	337	**Time**	X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used	N906	623	**Time Code**	O	ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

	N907	C040	**Reference Identifier**	O	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

When N901 is code TN, use is REQUIRED to reference the applicable X12 transaction set.

Must Use	C04001	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

> 87   Functional Category
>
> An organization or groups of organizations with a common operational orientation such as Quality Control Engineering, etc
>
> *When N901 is code TN, use is REQUIRED to qualify the number in N907-2 as the applicable X12 transaction set.*

Must Use	C04002	127	**Reference Identification**	M	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When C04001 is code 87, use is REQUIRED to identify the X12 transaction set numeric designation, e.g. 864 to indicate an Accredited Standards Committee (ASC) X12 864 Text Message transaction set.

Not Used	C04003	128	**Reference Identification Qualifier**	X	ID 2/3

Code qualifying the Reference Identification

Not Used	C04004	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	C04005	128	**Reference Identification Qualifier**	X	ID 2/3

Code qualifying the Reference Identification

Not Used	C04006	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**MTX** Text	
Position:	080	
Loop:	N9	
Level:	Heading	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify textual data	
Syntax Notes:	**1**	If MTX01 is present, then MTX02 is required.
	2	If MTX03 is present, then MTX02 is required.
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Not Used	MTX01	363	**Note Reference Code**	O	ID 3/3
			Code identifying the functional area or purpose for which the note applies		
Must Use	MTX02	1551	**Message Text**	X	AN 1/4096
			To transmit large volumes of message text		
Not Used	MTX03	1551	**Message Text**	O	AN 1/4096
			To transmit large volumes of message text		
Not Used	MTX04	934	**Printer Carriage Control Code**	O	ID 2/2
			A field to be used for the control of the line feed of the receiving printer		

	Segment:	**NM1** Individual or Organizational Name
	Position:	090
	Loop:	NM1
	Level:	Heading
	Usage:	Optional (Must Use)
	Max Use:	1
	Purpose:	To supply the full name of an individual or organizational entity
	Syntax Notes:	1 If either NM108 or NM109 is present, then the other is required.
		2 If NM111 is present, then NM110 is required.
	Semantic Notes:	1 NM102 qualifies NM103.
	Comments:	1 NM110 and NM111 further define the type of entity in NM101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	NM101	98	**Entity Identifier Code**	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

    1B   Applicant

> *Use is REQUIRED to indicate the grant application authorizing individual in NM103/04. This is the person associated with the grant applicant organization, code SE. Specify the authorizing individual's address in N3 - N4 if different from the grant application organization, code SE.*

    AD   Party to be advised (Written orders)

> *Use to indicate the business officer for the grant applicant. Specify the business officer's address in N3-N4 if different from the grant application organization, code SE.*

    BY   Buying Party (Purchaser)

> *Use is REQUIRED to indicate the Federal Agency to which the application is being submitted.*

    FA   Facility

> *Use to indicate the principal place of performance in NM108/09 when other than the address identified with code SE. Use the 2/NM1/340 segment to identify the place of performance associated with each appropriate HL loop, citing code 61 in NM101.*

    SE   Selling Party

> *1. Use is REQUIRED to indicate the grant applicant organization.*
>
> *2. When the applicant organization is applying for SBIR or STTR assistance, identify the date the for-profit company was founded in 1/DTM/030.*

Must Use	NM102	1065	**Entity Type Qualifier**	M ID 1/1

Code qualifying the type of entity

    1   Person

> *When NM101 is code AD or 1B, use of NM103/04 is REQUIRED to indicate the name of the individual, using NM105/06/07 as needed.*

    2   Non-Person Entity

Use with NM101 codes BY, FA, and SE to indicate that the entity being identified is an organization.

NM103	**1035**	**Name Last or Organization Name**	**O**	**AN 1/35**

Individual last name or organizational name

NM104	**1036**	**Name First**	**O**	**AN 1/25**

Individual first name

NM105	**1037**	**Name Middle**	**O**	**AN 1/25**

Individual middle name or initial

NM106	**1038**	**Name Prefix**	**O**	**AN 1/10**

Prefix to individual name

NM107	**1039**	**Name Suffix**	**O**	**AN 1/10**

Suffix to individual name

NM108	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.

1   D-U-N-S Number, Dun & Bradstreet

Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.

9   D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.

10   Department of Defense Activity Address Code (DODAAC)

Use in conjunction with NM101 code BY to indicate a Department of Defense (DoD) or Civilian Agency Activity Address Code.

33   Commercial and Government Entity (CAGE)

Use to indicate the specified organization's CAGE code.

NM109	**67**	**Identification Code**	**X**	**AN 2/20**

Code identifying a party or other code

Not Used	**NM110**	**706**	**Entity Relationship Code**	**X**	**ID 2/2**

Code describing entity relationship

Not Used	**NM111**	**98**	**Entity Identifier Code**	**O**	**ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

Segment:	**N2** Additional Name Information
Position:	100
Loop:	NM1
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Syntax Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N201	93	**Name**	**M** **AN 1/35**
			Free-form name	
	N202	93	**Name**	**O** **AN 1/35**
			Free-form name	

Segment: $\text{N}3$ **Address Information**
Position: 110
Loop: NM1
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	N301	166	**Address Information**	M	**AN 1/35**
			Address information		
	N302	166	**Address Information**	O	**AN 1/35**
			Address information		

Segment:	**N4** Geographic Location			
Position:	120			
Loop:	NM1			
Level:	Heading			
Usage:	Optional			
Max Use:	1			
Purpose:	To specify the geographic place of the named party			
Syntax Notes:	1	If N406 is present, then N405 is required.		
Semantic Notes:				
Comments:	1	A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.		
	2	N402 is required only if city name (N401) is in the U.S. or Canada.		

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
N401	19	**City Name**	**O**	**AN 2/30**
		Free-form text for city name		
N402	156	**State or Province Code**	**O**	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	**Postal Code**	**O**	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	**Country Code**	**O**	**ID 2/3**
		Code identifying the country		
N405	309	**Location Qualifier**	**X**	**ID 1/2**
		Code identifying type of location		
		CY	County/Parish	

When NM101 is code SE, use to indicate the county of the applicant as specified in the Federal Agency grant application instructions.

Ref. Des.	Data Element	Name		Attributes
N406	310	**Location Identifier**	**O**	**AN 1/30**
		Code which identifies a specific location		

Segment:	**N9** Reference Identification	
Position:	130	
Loop:	NM1	
Level:	Heading	
Usage:	Optional	
Max Use:	>1	
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier	
Syntax Notes:	1	At least one of N902 or N903 is required.
	2	If N906 is present, then N905 is required.
	3	If either C04003 or C04004 is present, then the other is required.
	4	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	N906 reflects the time zone which the time reflects.
	2	N907 contains data relating to the value cited in N902.
Comments:		

Data Element Summary

Must Use	Ref. Des.	Data Element	Name	Attributes
Must Use	N901	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3

19   Division Identifier

1. When NM101 is code BY, use to indicate the name of the receiving Federal Agency's division or office responsible for the program to which the applicant is applying. Cite the name in N903.

2. When NM101 is code SE, use to indicate the major subdivision name of the grant applicant organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.

5C   Congressional District

When NM101 is code SE, use is REQUIRED to indicate the Congressional District of the grant applicant.

CR   Customer Reference Number

When NM101 is code SE, use to indicate an identification number assigned to the grant applicant organization by the Federal Agency receiving the application.

DP   Department Number

When NM101 is code SE, use to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the grant applicant organization. For example, Department of Industrial Engineering or Sales Department.

EI   Employer's Identification Number

When NM101 is code SE, use to indicate the grant applicant's Entity Identification Number, if available, or Employer Identification Number.

P5   Position Code

			When NM101 is code 1B or AD, use is REQUIRED to indicate the job title of the individual. Cite the title in N903.		
	TJ		Federal Taxpayer's Identification Number		
			When NM101 is code SE, use is REQUIRED to indicate the grant applicant's Federal TIN. For individuals without a TIN, cite the individual's Social Security Account Number.		

	N902	**127**	**Reference Identification**	X	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	N903	**369**	**Free-form Description**	X	**AN 1/45**

Free-form descriptive text

Not Used	**N904**	**373**	**Date**	O	**DT 6/6**

Date (YYMMDD)

Not Used	**N905**	**337**	**Time**	X	**TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used	**N906**	**623**	**Time Code**	O	**ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Not Used	**N907**	**C040**	**Reference Identifier**	O	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used	**C04001**	**128**	**Reference Identification Qualifier**	M	**ID 2/3**

Code qualifying the Reference Identification

Not Used	**C04002**	**127**	**Reference Identification**	M	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	**C04003**	**128**	**Reference Identification Qualifier**	X	**ID 2/3**

Code qualifying the Reference Identification

Not Used	**C04004**	**127**	**Reference Identification**	X	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	**C04005**	**128**	**Reference Identification Qualifier**	X	**ID 2/3**

Code qualifying the Reference Identification

Not Used	**C04006**	**127**	**Reference Identification**	X	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**PER** Administrative Communications Contact
Position:	140
Loop:	NM1
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To identify a person or office to whom administrative communications should be directed
Syntax Notes:	1 If either PER03 or PER04 is present, then the other is required.
	2 If either PER05 or PER06 is present, then the other is required.
	3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	PER01	366	**Contact Function Code**	**M**	**ID 2/2**

Code identifying the major duty or responsibility of the person or group named

IC	Information Contact	

	PER02	93	**Name**	**O**	**AN 1/35**

Free-form name

When NM101 is code BY or SE, use to identify the name of a point of contact. Last name, followed by first name, is preferred. If the whole name is longer than 35 characters, the use of an initial for the first name is recommended.

Must Use	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

1. Use to identify the preferred method of communication in the first occurrence. Use PER05/06 and PER07/08 to identify additional communications numbers.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM	Electronic Mail	
FX	Facsimile	

Include area code and number.

IT	International Telephone	

Include country and city codes as needed.

TE	Telephone	

Include area code and number.

Must Use	PER04	364	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

1. Use to identify an alternate, or secondary, communications number which can be used to contact the specified Point of Contact (POC).

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM	Electronic Mail
EX	Telephone Extension

Use only if PER03 cites the code TE.

FX	Facsimile

Include area code and number.

IT	International Telephone

Include country and city codes as needed.

TE	Telephone

Include area code and number.

PER06 364 **Communication Number** X **AN 1/80**

Complete communications number including country or area code when applicable

PER07 365 **Communication Number Qualifier** X **ID 2/2**

Code identifying the type of communication number

1. Use to identify a third communications number.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

EM	Electronic Mail
EX	Telephone Extension

Use only if PER05 cites code TE.

FX	Facsimile

Include area code and number.

IT	International Telephone

Include country and city codes as needed.

TE	Telephone

Include area code and number.

PER08 364 **Communication Number** X **AN 1/80**

Complete communications number including country or area code when applicable

PER09 443 **Contact Inquiry Reference** O **AN 1/20**

Additional reference number or description to clarify a contact number

Use to provide the office symbol or organization routing code of the individual cited in PER02.

Segment:	**HL** Hierarchical Level
Position:	010
Loop:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:	
Semantic Notes:	

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.

2. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	HL01	628	Hierarchical ID Number	M	AN 1/12

A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

In the first iteration of this HL loop, cite the number 1. Increment by 1 for each subsequent iteration of the loop.

	Ref. Des.	Data Element	Name		Attributes
	HL02	734	Hierarchical Parent ID Number	O	AN 1/12

Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Use to identify the HL01 sequence number of the loop which is the parent loop to the current HL loop iteration.

	Ref. Des.	Data Element	Name		Attributes
Must Use	HL03	735	Hierarchical Level Code	M	ID 1/2

Code defining the characteristic of a level in a hierarchical structure

Select a code to indicate that the current HL loop iteration is one of the following loop types: Project, Sub-project, Consortium, Previous Award, Key Person, Other Support, Animal Subject, human subject Care Group, or Procedure.

	4		Group	

Code identifying a group of charges on the bill

Use to indicate a human subject Care Group loop. A Care Group loop must have the Project, a Sub-project, or a Consortium loop as its parent.

26	Member	

1. Use to indicate a Key Person loop. This loop is only needed when the individual has active, pending or planned other support. Use of a separate loop iteration is REQUIRED for each Key Person (NM101 codes 9P, 9S, or 9K in the 2/NM1/340 segment) identified in the Project or any Sub-project or Consortium loop who is receiving, applying for, or planning to apply for other support.

2. A Key Person loop must have the Project, a Sub-project, or a Consortium loop as its parent. For each Key Person loop, a subordinate Other Support loop is REQUIRED for each other support project to identify the level of support, the organization providing the support, and other related data.

AS   Animal Subject Group

Use to indicate an Animal Subject loop. An Animal Subject loop must have the Project, a Sub-project, a Consortium, or other Animal Subject loop as its parent. Animal Subject loops only apply to vertebrates.

CO   Consortium

Use to indicate a Consortium loop. A Consortium loop must have the Project, a Sub-project, or other Consortium loop as its parent.

IB   Contract

An agreement between partners

Use to indicate a Previous Award loop. The Previous Award loop may only have the Project loop as its parent. Use this code only if 1/BGN07/020 contains the code 6A, 6C, 6N.

OS   Support

1. When HL03 is code 26 (Key Person loop), use to indicate an Other Support loop associated with the Key Person.

2. One iteration of an Other Support loop is REQUIRED for EACH project (active, pending, or planned), other than a project contained in this application, to identify the level of support, the organization providing the support, and other related data . Submission of this same application to another agency requires the use of an Other Support loop.

PC   Project Code

A part of a larger effort

Use is REQUIRED in the first iteration of the HL loop to identify the Project loop. Do not use in subsequent loops.

PD   Procedure

Use to indicate a medical Procedure loop. A

Procedure loop must have a human subject Care Group loop as its parent.

SP   Sub-Project

Use to indicate a Sub-project loop. A Sub-project loop must have the Project, another Sub-project, or a Consortium loop as its parent.

HL04   **736**   **Hierarchical Child Code**   **O   ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

Use to indicate whether or not there is a subordinate loop to follow.

0	No Subordinate HL Segment in This Hierarchical Structure.
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment:		**QTY** Quantity	
Position:	020		
Loop:	HL		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To specify quantity information		
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	QTY01	673	**Quantity Qualifier**	M ID 2/2

Code specifying the type of quantity

1K   Time Units

The number of time units such as 8 (hours)

When HL03 is code 4 (Care Group loop), or AS (Animal Subject loop), use multiple occurrences as needed to indicate the Project budget period in which the group will be used. Cite 1 for the first budget period of the project, 2 for the second, etc.

E5   Employed by this Company

When HL03 is code PC (Project loop), use to indicate the number of employees in the company. Use only in Small Business Innovation Research Program (SBIR) and Small Business Technology Transfer Program (STTR) applications.

S7   Age, High Value

When HL03 is code 4 (Care Group loop) or AS (Animal Subject loop), use to indicate upper limit in the age range criterion for human and animal subjects.

S8   Age, Low Value

Use when HL03 is code 04 (Care Group loop) or AS (Animal Subject loop) to indicate the lower limit in the age range criterion for human and animal subjects.

TO   Total

When HL03 is code 4 (Care Group loop) or AS (Animal Subject loop), use to indicate the number of subjects in the group.

Must Use	QTY02	380	**Quantity**	M R 1/15

Numeric value of quantity

Must Use	QTY03	C001	**Composite Unit of Measure**	O

To identify a composite unit of measure (See Figures Appendix for examples of use)

Must Use	C00101	355	**Unit or Basis for Measurement Code**	M ID 2/2

Code specifying the units in which a value is being expressed, or manner in

which a measurement has been taken

Use the applicable unit of measure code dependent on the code cited in QTY01. When QTY01 is code E5, TO, or 1K, use code EA. When QTY01 is code S7 or S8, use one of codes DA, MO, or YR.

DA	Days
EA	Each
MO	Months
YR	Years

Not Used	C00102	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00103	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00105	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00106	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00107	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00108	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00109	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	**Multiplier**	O	R 1/10
			Value to be used as a multiplier to obtain a new value		

Segment:	**AMT** Monetary Amount	
Position:	030	
Loop:	HL	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To indicate the total monetary amount	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**AMT01**	**522**	**Amount Qualifier Code**	**M ID 1/2**
			Code to qualify amount	

1. When HL03 is code PD (Procedure loop), use codes 1F and 1G to identify outpatient expenses NOT associated with in-patient stays; use the 2/PAM/060 segment to identify the cost of in-patient hospital stays.

2. When HL03 is code AS (Animal Subject Loop) and either code G3 or SP is used, provide the species description in the 2/N9/100 loop citing code L4 in N901 and code H. 1 in N902.

3. When HL03 is code PD (Procedure loop), use codes 1H, D7, and FE to identify costs associated with either inpatient or outpatient procedures.

1F	Lodging	
1G	Meals	
1H	Travel Expense	
D7	Dispensing Fee	
	A charge to prepare and distribute medicines to those who are to use them	

When HL03 is code PD (Procedure loop), use to identify the unit cost per care procedure.

FE	Fee	

Use to indicate the total fees paid to donors.

G3	Price per Unit Area	

When HL03 is code AS (Animal Subject loop), use multiple repetitions, as needed, to indicate the purchase price of animals that individually priced. When this code is used, do not use code SP.

SP	Sales Price	

When HL03 is code AS (Animal Subject loop), use to indicate the average purchase price of animals in a group. When this code is used, do not use code G3.

Must Use	**AMT02**	**782**	**Monetary Amount**	**M R 1/15**
			Monetary amount	
Not Used	**AMT03**	**478**	**Credit/Debit Flag Code**	**O ID 1/1**
			Code indicating whether amount is a credit or debit	

	Segment:	**DTM** Date/Time Reference
	Position:	050
	Loop:	HL
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To specify pertinent dates and times
	Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.
		2 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	DTM01	374	**Date/Time Qualifier**	M	ID 3/3

Code specifying type of date or time, or both date and time

193	Period Start	
	Use to indicate the planned start date.	
194	Period End	
	Use to indicate the planned completion date.	
432	Submission	
	Date on which claim billing information was sent to payer	
	When HL03 is code OS, use to indicate the submission date for active or pending Other Support.	

	Ref. Des.	Data Element	Name	Attributes	
Must Use	DTM02	373	**Date**	X	DT 6/6

Date (YYMMDD)

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DTM03	337	**Time**	X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DTM04	623	**Time Code**	O	ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

	Ref. Des.	Data Element	Name	Attributes	
	DTM05	624	**Century**	O	N0 2/2

The first two characters in the designation of the year (CCYY)

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DTM06	1250	**Date Time Period Format Qualifier**	X	ID 2/3

Code indicating the date format, time format, or date and time format

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DTM07	1251	**Date Time Period**	X	AN 1/35

Expression of a date, a time, or range of dates, times or dates and times

Segment:	**PAM** Period Amount
Position:	060
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate a quantity, and/or amount for an identified period

Syntax Notes:
1. If any of PAM01 PAM02 or PAM03 is present, then all are required.
2. At least one of PAM02 PAM05 or PAM14 is required.
3. If either PAM04 or PAM05 is present, then the other is required.
4. If either PAM06 or PAM07 is present, then the other is required.
5. If PAM07 is present, then at least one of PAM08 or PAM09 is required.
6. If PAM07 is present, then PAM06 is required.
7. If PAM08 is present, then PAM07 is required.
8. If PAM09 is present, then PAM07 is required.
9. If PAM10 is present, then at least one of PAM11 or PAM12 is required.
10. If PAM11 is present, then PAM10 is required.
11. If either PAM13 or PAM14 is present, then the other is required.

Semantic Notes:
1. PAM10, PAM11, or PAM12 are used when two dates are required.

Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PAM01	673	**Quantity Qualifier**	X ID 2/2

Code specifying the type of quantity

37   Work In Process

When HL03 is code OS (Other Support loop), use to indicate the number of labor months of active support funded by the other project.

A3   Most Likely Duration

Most likely amount of time needed to complete a task or activity

When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use is REQUIRED to indicate the planned duration of a project.

AY   Forecast

When HL03 is code OS (Other Support loop), use to indicate the number of labor months of support planned for submission to the other project.

DY   Days

1. When HL03 is code PD (Procedure loop), use to indicate the average number of days a patient will be in a hospital or treatment facility.

2. When HL03 is code AS (Animal Subject loop), use to indicate the average length of housing.

E3   Employed on this job

When HL03 is code OS (Other Support loop), use to indicate the average level of effort to be dedicated to

> *the project if less than full time for the individual identified in the parent Key Person loop. Cite the level of effort in months in PAM02/03 and as a percentage in PAM13/14. Identify the applicable period in PAM06, PAM07/08, and PAM10/11.*

	KA	Estimated

The quantity shown is an estimated quantity

> *When HL03 is code OS (Other Support loop), use to indicate the number of labor months of pending support requested for the other project.*

	PAM02	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

	PAM03	**C001**	**Composite Unit of Measure**	**X**	

To identify a composite unit of measure (See Figures Appendix for examples of use)

Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

	DA	Days

> *Use only with PAM01 code DY.*

	MO	Months

> *Use with PAM01 code 37, A3, AY, E3, and KA.*

Not Used	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**

Power to which a unit is raised

Not Used	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**

Value to be used as a multiplier to obtain a new value

Not Used	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**

Power to which a unit is raised

Not Used	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**

Value to be used as a multiplier to obtain a new value

Not Used	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**

Power to which a unit is raised

Not Used	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**

Value to be used as a multiplier to obtain a new value

Not Used	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used	**C00111**	**1018**	**Exponent**	**O**	**R 1/15**

Power to which a unit is raised

Not Used	**C00112**	**649**	**Multiplier**	**O**	**R 1/10**

Value to be used as a multiplier to obtain a new value

Not Used	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used	C00114	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00115	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

	PAM04	522	**Amount Qualifier Code**	X	ID 1/2

Code to qualify amount

80   Funding - Total Requirements

The estimate of total fund requirements for contract work authorized and forecast

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37, use to indicate the total awarded amount.

2. When HL03 is code OS (Other Support loop) and PAM01 is code KA, use to indicate the total requested amount.

3. When HL03 is code OS (Other Support loop) and PAM01 is code AY, use to indicate the total amount of support planned for submission to the other project.

KE   Annual Revenue

The sum of all incomes generated by a business over a period of one year

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37, use to indicate the annual direct cost associated with the most recent award.

2. When HL03 is code OS (Other Support loop) and PAM01 is code KA, use to indicate the annual direct cost associated with the initial budget period.

PY   Per Person per Day Limit

1. When HL03 is code PD (Procedure loop) and PAM01 code DY, use to indicate the daily inpatient care rate.

2. When HL03 is code AS (Animal Subject loop), use to indicate the daily housing cost.

	PAM05	782	**Monetary Amount**	X	R 1/15

Monetary amount

Amount in U.S. currency.

	PAM06	344	**Unit of Time Period or Interval**	X	ID 2/2

Code indicating the time period or interval

When HL03 is code OS (Other Support loop) and PAM01 is either code 37, AY, or KA, use to identify the appropriate time period specified in PAM07/08.

AP   Academic Period

Use to indicate an academic period.

CC   Cycles

Periodic cycling of extreme levels of a variable

Use to indicate a total Other Support project period when not an academic period, summer period or an annual period.

CY   Calendar Year

			Use to indicate an annual period.		
		SP	Summer Period		
			Use to indicate a summer period.		
	PAM07	**374**	**Date/Time Qualifier**	**X**	**ID 3/3**

Code specifying type of date or time, or both date and time

		193	Period Start		

1. When HL03 is code OS (Other Support loop) and PAM01 is code 37 use to indicate the date the support started.

2. When HL03 is code OS (Other Support loop) and PAM01 is code AY or KA use to indicate the estimated start date.

	PAM08	**373**	**Date**	**X**	**DT 6/6**

Date (YYMMDD)

Not Used	**PAM09**	**337**	**Time**	**X**	**TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	PAM10	**374**	**Date/Time Qualifier**	**X**	**ID 3/3**

Code specifying type of date or time, or both date and time

		194	Period End		

When HL03 is code OS (Other Support loop) and PAM01 is either code 37, AY, or KA, use to indicate the date that support (planned, pending, or active) is anticipated to terminate.

	PAM11	**373**	**Date**	**X**	**DT 6/6**

Date (YYMMDD)

Not Used	**PAM12**	**337**	**Time**	**X**	**TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	PAM13	**1004**	**Percent Qualifier**	**X**	**ID 1/2**

Code to qualify percent

		14	Availability Factor		

A resource availability percentage

When PAM01 is code E3, use to indicate the average level of effort to be dedicated to the project if less than full time (100%) for the individual identified in the parent Key Person loop.

	PAM14	**954**	**Percent**	**X**	**R 1/10**

Percentage expressed as a decimal

Cite 50 to indicate 50% (one-half time); cite 75.5 to indicate 75.5%.

	Segment:	**HSD** Health Care Services Delivery
	Position:	070
	Loop:	HL
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To specify the delivery pattern of health care services
	Syntax Notes:	**1** If either HSD01 or HSD02 is present, then the other is required.
		2 If HSD06 is present, then HSD05 is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	HSD01	673	**Quantity Qualifier**	X	ID 2/2
			Code specifying the type of quantity		

	AG	Number of End Users
		Number of participating users

Use to indicate the number of patients being treated with the specified procedure.

	Ref. Des.	Data Element	Name	Attr1	Attributes
Must Use	HSD02	380	**Quantity**	X	R 1/15
			Numeric value of quantity		
Not Used	HSD03	355	**Unit or Basis for Measurement Code**	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	HSD04	1167	**Sample Selection Modulus**	O	R 1/6
			To specify the sampling frequency in terms of a modulus of the Unit of Measure, e.g., every fifth bag, every 1.5 minutes		
Must Use	HSD05	615	**Time Period Qualifier**	X	ID 1/2
			Code defining periods		

	1	Chargeable Periods

Use to indicate the average number of treatments to be administered to each patient.

	Ref. Des.	Data Element	Name	Attr1	Attributes
Must Use	HSD06	616	**Number of Periods**	O	N0 1/3
			Total number of periods		
Not Used	HSD07	678	**Ship/Delivery or Calendar Pattern Code**	O	ID 1/2
			Code which specifies the routine shipments, deliveries, or calendar pattern		
Not Used	HSD08	679	**Ship/Delivery Pattern Time Code**	O	ID 1/1
			Code which specifies the time for routine shipments or deliveries		

Segment:	**NX1** Property or Entity Identification	
Position:	080	
Loop:	HL	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To define the attributes of a property or an entity	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	NX101	98	**Entity Identifier Code**	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Use ALL listed codes that apply. Cite the applicable codes in NX101/02/03/04/05, as needed.

1F	Alliance	

Use to indicate an international organization (e.g., World Health Organization).

21	Small Business
27	Small Disadvantaged Business
2F	State

Use to indicate a state government-owned entity. Includes school grades K-12. Use in conjunction with code M8 to indicate institutions of higher education, such as state universities and colleges.

2J	Individual
2R	Federal Facility

Use to indicate a Federally owned facility.

80	Hospital

An institution where the ill or injured may receive medical treatment

8E	Minority Institution

Use to indicate the organization is also an institution of higher education and code HB does not apply. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, and C8; otherwise, the institution will be considered to be privately-owned.

91	Action Party

The organization responsible for investigation and resolution

Use to indicate a Community Action Agency.

95	Research Institute

Also use code 2F, 2R, C6, C7, or C8 if the institution is publicly-owned.

A2	Woman-Owned Business

A business (not defined as large or small) that is owned by a woman

A6	Section 8(a) Program Participant Firm

A firm participating in a program (under Section 8 (a) of the Small Business Act (15 U.S.C. 637 (a)), in which the Small Business Administration enters into contracts on behalf of, and then subcontracts with, the participating firm, certifying the firm's competence and responsibility

A8	Nonprofit Institution

A business that by operation of policy or law does not choose (or is not allowed) to make a profit from the efforts of its enterprise

1. Use to indicate a nonprofit entity not otherwise identified by a listed code.

2. Also may be used with other codes to indicate that the entity is a nonprofit organization. If this code is not used in conjunction with another code, that entity will be assumed to be for-profit. Do not use with codes 1F, 2F, 2R, C6, C7, C8, or XY.

B2	Other Unlisted Type of Organizational Entity

An organization, e.g., a business, the description of which cannot be accomplished using the existing code list and for which the trading partners have not mutually agreed to a definition for it

Use to indicate an organizational entity type not included in other available codes (e.g., a Federally Funded Research and Development Center [FFRDC]). This code may be used in conjunction with code A8 but not other codes.

B9	Large Business

A business entity that cannot be classified as a small business for purposes of receiving preferential treatment in the award of contracts

BZ	Business Associate

Use to indicate a Foundation; an organization, closely affiliated with but separately incorporated from another organization, established to facilitate the administration of research and other programs supported by Federal funds.

C6	Municipality

Use to indicate a local government-owned entity. Includes boroughs, townships and organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.

C7	County

Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of

higher education.

C8	City	

Use to indicate a local government-owned entity. Includes organizations managing school grades K-12. Also use this code in conjunction with code M8 to indicate a local government-owned institution of higher education.

H6   School District

HB   Historically Black College or University

An educational institution of higher learning with a historical black student population.

If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.

KM   Coordinator

Use to indicate a Planning Commission.

M8   Educational Institution

The organization is also an institution of higher education. If the institution is publicly-owned, use in conjunction with one of the following codes: 2F, 2R, C6, C7, C8; otherwise, the institution will be considered to be privately-owned.

T4   Transfer Point

A geographic location where a shipment is transferred or diverted to a new destination

Use to indicate a Port Authority.

TR   Terminal

Use to indicate an Airport Authority.

TW   Transit Authority

UD   Region

Use to indicate a Council of Governments.

XY   Tribal Government

Use to indicate an American Indian organization which is not a business.

XZ   American Indian-Owned Business

ZZ   Mutually Defined

Use to indicate the organization is predominantly Hispanic (Hispanic Service Institute).

NX102   **98**   **Entity Identifier Code**   **O   ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

1F   Alliance

21   Small Business

27   Small Disadvantaged Business

2F   State

2J   Individual

2R	Federal Facility	
80	Hospital	
	An institution where the ill or injured may receive medical treatment	
8E	Minority Institution	
91	Action Party	
	The organization responsible for investigation and resolution	
95	Research Institute	
A2	Woman-Owned Business	
	A business (not defined as large or small) that is owned by a woman	
A6	Section 8(a) Program Participant Firm	
	A firm participating in a program (under Section 8 (a) of the Small Business Act (15 U.S.C. 637 (a)), in which the Small Business Administration enters into contracts on behalf of, and then subcontracts with, the participating firm, certifying the firm's competence and responsibility	
A8	Nonprofit Institution	
	A business that by operation of policy or law does not choose (or is not allowed) to make a profit from the efforts of its enterprise	
B2	Other Unlisted Type of Organizational Entity	
	An organization, e.g., a business, the description of which cannot be accomplished using the existing code list and for which the trading partners have not mutually agreed to a definition for it	
B9	Large Business	
	A business entity that cannot be classified as a small business for purposes of receiving preferential treatment in the award of contracts	
BZ	Business Associate	
C6	Municipality	
C7	County	
C8	City	
H6	School District	
HB	Historically Black College or University	
	An educational institution of higher learning with a historical black student population.	
KM	Coordinator	
M8	Educational Institution	
T4	Transfer Point	
	A geographic location where a shipment is transferred or diverted to a new destination	
TR	Terminal	
TW	Transit Authority	
UD	Region	
XY	Tribal Government	
XZ	American Indian-Owned Business	
ZZ	Mutually Defined	

NX103   **98**   **Entity Identifier Code**   **O**   **ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

1F	Alliance
21	Small Business
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
80	Hospital
	An institution where the ill or injured may receive medical treatment
8E	Minority Institution
91	Action Party
	The organization responsible for investigation and resolution
95	Research Institute
A2	Woman-Owned Business
	A business (not defined as large or small) that is owned by a woman
A6	Section 8(a) Program Participant Firm
	A firm participating in a program (under Section 8 (a) of the Small Business Act (15 U.S.C. 637 (a)), in which the Small Business Administration enters into contracts on behalf of, and then subcontracts with, the participating firm, certifying the firm's competence and responsibility
A8	Nonprofit Institution
	A business that by operation of policy or law does not choose (or is not allowed) to make a profit from the efforts of its enterprise
B2	Other Unlisted Type of Organizational Entity
	An organization, e.g., a business, the description of which cannot be accomplished using the existing code list and for which the trading partners have not mutually agreed to a definition for it
B9	Large Business
	A business entity that cannot be classified as a small business for purposes of receiving preferential treatment in the award of contracts
BZ	Business Associate
C6	Municipality
C7	County
C8	City
H6	School District
HB	Historically Black College or University
	An educational institution of higher learning with a historical black student population.
KM	Coordinator
M8	Educational Institution
T4	Transfer Point
	A geographic location where a shipment is transferred or diverted to a new destination
TR	Terminal

	TW	Transit Authority		
	UD	Region		
	XY	Tribal Government		
	XZ	American Indian-Owned Business		
	ZZ	Mutually Defined		

NX104 **98** **Entity Identifier Code** **O** **ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

1F	Alliance
21	Small Business
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
80	Hospital
	An institution where the ill or injured may receive medical treatment
8E	Minority Institution
91	Action Party
	The organization responsible for investigation and resolution
95	Research Institute
A2	Woman-Owned Business
	A business (not defined as large or small) that is owned by a woman
A6	Section 8(a) Program Participant Firm
	A firm participating in a program (under Section 8 (a) of the Small Business Act (15 U.S.C. 637 (a)), in which the Small Business Administration enters into contracts on behalf of, and then subcontracts with, the participating firm, certifying the firm's competence and responsibility
A8	Nonprofit Institution
	A business that by operation of policy or law does not choose (or is not allowed) to make a profit from the efforts of its enterprise
B2	Other Unlisted Type of Organizational Entity
	An organization, e.g., a business, the description of which cannot be accomplished using the existing code list and for which the trading partners have not mutually agreed to a definition for it
B9	Large Business
	A business entity that cannot be classified as a small business for purposes of receiving preferential treatment in the award of contracts
BZ	Business Associate
C6	Municipality
C7	County
C8	City
H6	School District
HB	Historically Black College or University
	An educational institution of higher learning with a

		historical black student population.
	KM	Coordinator
	M8	Educational Institution
	T4	Transfer Point
		A geographic location where a shipment is transferred or diverted to a new destination
	TR	Terminal
	TW	Transit Authority
	UD	Region
	XY	Tribal Government
	XZ	American Indian-Owned Business
	ZZ	Mutually Defined

NX105   **98**   **Entity Identifier Code**   **O**   **ID 2/2**

Code identifying an organizational entity, a physical location, or an individual

Notes associated with specific codes in NX101, are applicable to the same codes in this data element.

1F	Alliance
21	Small Business
27	Small Disadvantaged Business
2F	State
2J	Individual
2R	Federal Facility
80	Hospital
	An institution where the ill or injured may receive medical treatment
8E	Minority Institution
91	Action Party
	The organization responsible for investigation and resolution
95	Research Institute
A2	Woman-Owned Business
	A business (not defined as large or small) that is owned by a woman
A6	Section 8(a) Program Participant Firm
	A firm participating in a program (under Section 8 (a) of the Small Business Act (15 U.S.C. 637 (a)), in which the Small Business Administration enters into contracts on behalf of, and then subcontracts with, the participating firm, certifying the firm's competence and responsibility
A8	Nonprofit Institution
	A business that by operation of policy or law does not choose (or is not allowed) to make a profit from the efforts of its enterprise
B2	Other Unlisted Type of Organizational Entity
	An organization, e.g., a business, the description of which cannot be accomplished using the existing code list and for which the trading partners have not mutually agreed to a definition for it
B9	Large Business
	A business entity that cannot be classified as a small business for purposes of receiving preferential treatment in the award of contracts

BZ	Business Associate
C6	Municipality
C7	County
C8	City
H6	School District
HB	Historically Black College or University
	An educational institution of higher learning with a historical black student population.
KM	Coordinator
M8	Educational Institution
T4	Transfer Point
	A geographic location where a shipment is transferred or diverted to a new destination
TR	Terminal
TW	Transit Authority
UD	Region
XY	Tribal Government
XZ	American Indian-Owned Business
ZZ	Mutually Defined

Segment:	YNQ Yes/No Question		
Position:	090		
Loop:	HL		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition		
Syntax Notes:	1	Only one of YNQ01 YNQ09 or YNQ10 may be present.	
	2	If either YNQ03 or YNQ04 is present, then the other is required.	
	3	If YNQ09 is present, then YNQ08 is required.	
Semantic Notes:	1	YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.	
	2	YNQ10 contains a free-form question when codified questions are not available.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	YNQ01	1321	**Condition Indicator**	X ID 2/2

Code indicating a condition

1. Use codes only when the organization's response to the question matches the criteria in the code note.

2. When a code is used, use YNQ05/06/07 to provide explanations.

FG   Application is Certified

The applicant certifies compliance with all applicable assurances identified on the Standard Form 424b. Use if the answer is no. A no response requires an explanation.

G3   Hazardous Materials are Used or Produced

Are hazardous materials used or produced in the project? Use if the answer is yes.

G4   Genetically Engineered Organisms are Used or Produced

Are genetically engineered organisms used or produced in the project? Use if the answer is yes.

G5   This is a Group Proposal

Is this a group application? Use if the answer is yes.

G6   Historical Sites Are Affected

Are historical sites affected by the project? Use if the answer is yes. A yes response requires an explanation.

G7   Facilities are Properly Accredited or Authorized

Are facilities properly accredited/authorized for this project? Use if the answer is no. A no response requires an explanation.

G8   Proprietary or Privileged Information will be contained in the Application

Is proprietary/privileged information included in the application? Use if the answer is yes.

G9		This Project is in Violation of an Environmental Compliance Regulation
		Is this project in violation of any environmental compliance regulation? Use if the answer is yes. A yes response requires an explanation.
H0		Organization Certifies Compliance with Federal Lobbying Regulations
		Does the proposing organization certify compliance with Federal Lobbying Regulations? Use if the answer is no. A no response requires an explanation.
H1		Project involves the International Co-operative Act
		Does this project involve international cooperative activities? Use if the answer is yes.
H2		Human Anatomical Substances Are Used
		Are human anatomical substances used in this project? Use if the answer is yes.
H4		Lobbying Activities Have Been Conducted Regarding the Proposal
		Have lobbying activities been conducted regarding the application? Use if the answer is yes. A yes response requires an explanation.
H5		Organization Certifies Compliance With the Drug-Free Workplace Act
		Does the organization certify compliance with the Drug-Free Workplace Act of 1988? Use if the answer is no. A no response requires an explanation.
H6		Organization Certifies Compliance with the Code of Federal Regulations Regarding Research Misconduct
		Does the organization certify compliance with the Code of Federal Regulations "Responsibility for Public Health Service (PHS) Awardee and Applicant Institutions for Dealing with and Reporting Possible Misconduct in Science" (42 CFR 50 Subpart A)? Use if the answer is no. A no response requires an explanation.
H7		Organization Provides a Smoke Free Workplace
		Does the organization currently provide a smoke-free workplace and/or promote the non-use of tobacco products, or have plans to do so? Use if the answer is no.
H8		Organization Certifies Compliance with Federal Discrimination Regulations
		Does the organization certify compliance with Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, and the Age Discrimination Act of 1975? Use if the answer is no.
H9		Organization Certifies Compliance with the Code of

Federal Regulations Regarding Responsibility of Applicants for Promoting Objectivity in Research for which Public Health Service (PHS) Funding is Sought

Does the organization certify compliance with the Code of Federal Regulations "Responsibility of Applicants for Promoting Objectivity in Research for which PHS Funding is Sought" (42 CFR 50, Subpart F) or National Science Foundation Financial Disclosure Policy (National Science Foundation (NSF) Grant Policy Manual, Section 510)? Use if the answer is no. A no response requires an explanation.

I7   Organization has Delinquent Federal Debts

Does the organization have any delinquent Federal debts? Use if the answer is yes. A yes response requires an explanation.

I8   Organization has been Placed on the Federal Debarment and Suspension List

Is the organization on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs or otherwise been determined NOT in compliance with Executive Orders on Debarment/Suspension? Use if the answer is yes. A yes response requires an explanation.

J1   Military Services Barred from Recruitment Activities at the Proposing Organization's Site(s)

Are Military Services barred from recruitment activities at the proposing organization's site(s)? Use if the answer is yes. A yes response requires an explanation.

J2   Rate Negotiated

Does the organization have a patient care rate agreement negotiated with the Department of Health and Human Services? Use if the answer is no. This code is used only in Procedure loops for in-patient human subjects.

J4   Project Requires Inter-Government Review for Activities that affect State or Local Government or Possible National Security Implications

Does the project require review under Executive Order No. 12372 for activities that directly affect state or local government or possible national security implications?

* a. Cite Y in YNQ02 and identify the review date in YNQ04.*

* b. Cite N in YNQ02 when the project is subject to the Executive Order but has not been selected for review.*

* c. Do not use if the answer is No because the project is not covered by the Executive Order.*

NR   No Restrictions

Use to indicate that the applying organization gives

> *permission to the Federal Government to announce the award and address-related information regarding the organization. Use if the answer is no.*

Must Use	YNQ02	1073	**Yes/No Condition or Response Code**	**M**	**ID 1/1**

Code indicating a Yes or No condition or response

A Yes/No response relates to the code cited in the immediately preceding YNQ01 data element.

	N		No
	Y		Yes

	YNQ03	1250	**Date Time Period Format Qualifier**	**X**	**ID 2/3**

Code indicating the date format, time format, or date and time format

	D8		Date Expressed in Format CCYYMMDD

	YNQ04	1251	**Date Time Period**	**X**	**AN 1/35**

Expression of a date, a time, or range of dates, times or dates and times

When YNQ01 is code J4 and YNQ02 is code Y, use to identify the review date.

	YNQ05	933	**Free-Form Message Text**	**O**	**AN 1/264**

Free-form message text

Use as needed to provide explanatory text related to the codes selected in YNQ01/02. YNQ05/06/07 may be used as a continuous string of text.

	YNQ06	933	**Free-Form Message Text**	**O**	**AN 1/264**

Free-form message text

	YNQ07	933	**Free-Form Message Text**	**O**	**AN 1/264**

Free-form message text

Not Used	YNQ08	1270	**Code List Qualifier Code**	**X**	**ID 1/3**

Code identifying a specific industry code list

Not Used	YNQ09	1271	**Industry Code**	**X**	**AN 1/30**

Code indicating a code from a specific industry code list

Not Used	YNQ10	933	**Free-Form Message Text**	**X**	**AN 1/264**

Free-form message text

Segment:	**N9** Reference Identification
Position:	100
Loop:	N9
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	1 At least one of N902 or N903 is required.
	2 If N906 is present, then N905 is required.
	3 If either C04003 or C04004 is present, then the other is required.
	4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 N906 reflects the time zone which the time reflects.
	2 N907 contains data relating to the value cited in N902.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N901	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

	3X	Subcontract Number

Use this code once only when HL03 is code SP (Sub-project loop) or CO (Consortium loop) to indicate a unique identification number for the sub-project or consortium effort identified in this iteration of the HL loop.

	43	Supporting Document Number

Supports or clarifies information and values represented in a document

1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), AS (Animal Subject loop), PD (Procedure loop), or IB (Previous Award loop), use to indicate that a matrix will follow. For example, when HL03 is code 4, a Gender and Minority inclusion matrix associated with the individuals making up the care group could follow. Cite the word MATRIX in N903 and use the 2/MTX/110 segment to identify the matrix title.

2. Use of the 2/INX/120 loop is REQUIRED to define the matrix.

	5S	Processing Area

For nonresearch applications, use to indicate the type of submission as specified in the Federal Agency grant application instructions. This represents the project's purpose, e.g., construction, rehabilitation, planning, etc.

	6M	Application Number

1. Use to indicate the application number assigned by a reviewing organization (state, regional council, transit authority, etc.) taking action prior to the submission of the application to a Federal Agency.

2. Identify the reviewing organization in N903.

F4   Facility Certification Number

A unique number assigned to qualifying facilities to perform services

1. Use to indicate the organization's Assurance of Compliance Number in N902; the type of review (FULL or EXPEDITED) in N903; and identify the Institution Review Board (IRB) approval date in N904.

2. When the number applies to all care groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium (HL03 is code CO).

3. When the number applies to an individual care group, use this code in that Care Group loop (HL03 is code 4).

4. When an IRB approval has not been received, cite the word PENDING in N903.

L4   Proposal Paragraph Number

The place in a proposal where additional information can be found

1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 4 (Care Group loop), AS (Animal Subject loop), or PD (Procedure loop), use to indicate that N902 cites the Grant Application paragraph number that identifies the type of text that will appear in the following 2/MTX/110 segment. N903 may be used to provide an applicant-supplied title for that paragraph.

2. This N9/MTX combination provides the text data comprising the statement of work and other textual data associated with the application.

M7   Medical Assistance Category

When HL03 is code PD (Procedure loop), use is REQUIRED to indicate the type of patient processing. Cite one of the following codes in N902.

D for Donors
I   for inpatient treatments
O for outpatient treatments

WI   Waiver

1. Use to indicate that the Department of Health and Human Services exemption category (1, 2, 3, 4, 5, or 6) number is cited in N902. See 45 CFR Part 46 for category definitions.

2. When the exemption applies to all care groups, use this code in the Project loop (HL03 is code PC) or in the applicable Sub-project loop (HL03 is code SP).

3. When the number applies to an individual care group, use the code in that Care Group loop (HL03 is code 4).

| | Y9 | Current Certificate Number |

1. Use to indicate the Animal Welfare Assurance Number. Use N904 to identify the Institutional Animal Care and Use Committee (IACUC) approval date.

2. When the number applies to all animal subject groups, use this code in the Project loop (HL03 is code PC), in the applicable Sub-project loop (HL03 is code SP) or in the applicable Consortium (HL03 is code CO).

3. When the numbers vary by animal subject groups, use this code in Animal Subject loop (HL03 is code AS).

4. When an IACUC approval has not been received, cite the word PENDING in N903.

| | YB | Revision Number |

When BGN07 is code FM and HL03 is code PC (Project loop), use to indicate the Federal agency identification of a revised budget.

Must Use   N902   127   Reference Identification   X   AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

When N901 is code L4, cite the applicable Grant Application paragraph number from the following list:

Para #   Paragraph Title

A   Abstract

B   Project Description
B.1   Introduction
B.2   Aims
B.3   Background
B.4   Preliminary Studies
B.5   Research Design/Approach
B.6   Bibliography/References

C   Project Resources & Environment
C.1   Personnel & Budget Justifications
C.2   Space/Facilities
C.3   Equipment
C.4   Other
C.5   Travel Justification
C.6   Alterations and Renovations
C.7   Supplies

E   Explanations
E.1   Cert & Reps
E.2   Other Commitments
E.3   Mandatory Cost Sharing
E.4   Project Related Income
E.5   Special Project Considerations
E.6   Consortium/Contractual Arrangements

F   Special Considerations

F.1   List of Reviewers (Include/Exclude)
F.2   Cover Letter
F.3   Free Text

G   Human Subjects
G.1   Care Group
G.1.1   Demographic Information
G.1.2   Inclusion Criteria
G.1.3   Health Status
G.1.4   Description
G.1.5   Rationale For Use
G.1.6   Specimen Sources
G.1.7   Other Support Justification
G.2   Consent Data
G.2.1   Recruitment Procedures
G.2.2   Circumstances Requiring Consent
G.2.3   Documentation Methods
G.2.4   Description of any IRB Waivers
G.3   Care Procedures
G.3.1   Procedure Justification
G.3.2   Procedure Risks
G.3.3   Likelihood of Risks
G.3.4   Seriousness of Risks
G.3.5   Alternative Treatments
G.3.6   Risks/Benefits Assessment
G.3.7   Protections Against Risks
G.3.8   Data Monitoring Techniques
G.3.9   Intervention
G.4   Donors
G.4.2   Donor Justification
G.5   Test Article
G.5.1   Test Article Name
G.5.2   Test Article Status (30-day Interval)
G.5.3   FDA Restrictions on Use

H   Animals
H.1   Species Description
H.1.1   Purpose & Rationale
H.1.2   Housing Explanation
H.2   Veterinary Care
H.3   Procedures to Limit Discomfort
H.4   Euthanasia
H.4.1   Description
H.4.2   Rationale
H.5   Noncompliance Explanation

I   Progress Report
I.1   Specific Aims
I.2   Results & Significance
I.3   Plans
I.3.1   Plans Specific Aims
I.3.2   Human Subject Changes
I.3.3   Invertebrate Animal Changes
I.4   Project Generated Resources
I.5   Significant Unobligated Balances
I.6   Inventions (Title, Name of inventor(s))

J   Special Program Cross-Cuts
J.1   Beginning Investigator

J.2   *Small Grant For Exploratory Research*
J.4   *Facilitation for Scientific & Engineers with Disabilities*
J.5   *Research Opportunity Award*
J.6   *Single Investigator*
J.7   *Young Investigator*
J.8   *Short-term Innovative Research Program*
J.9   *Research Instrumentation Program*
J.10   *Historically Black College or University/Minority Institution Award*

K   *Research Career Award*
K.1   *The Candidate*
K.1.1   *Letters of Reference*
K.1.2   *Candidate's Background*
K.1.3   *Career Goals and Objectives: Scientific Biography*
K.1.4   *Career Development Activities during Award Period*
K.2   *Statements by Sponsors, Consultants, and Collaborators*
K.3   *Environment and Institutional Commitment to Candidate*
K.3.1   *Description of Institutional Environment*
K.3.2   *Institutional Commitment*

L   *Research Training Program Plan*
L.1   *Introduction to Revised Application*
L.2   *Introduction to Supplemental Application*
L.3   *Background*
L.4   *Program Plan*
L.4.1   *Program Direction*
L.4.2   *Program Faculty*
L.4.3   *Proposed Training*
L.4.4   *Trainee Candidates*
L.5   *Recruitment of Individuals*
L.6   *Responsible Conduct of Research*

M   *Potential Applications of Research*

N903   369   **Free-form Description**   **X**   **AN 1/45**

Free-form descriptive text

1. When N901 is code L4, use to identify the Grant Application paragraph title or an alternative title preferred by the grant applicant.

2. When N901 code F4, use to identify the type of IRB review. Cite either the word FULL or EXPEDITED.

3. When N901 is code 6M, use to identify the reviewing organization. For a state government, cite only the two position postal code abbreviation for the state, e.g., CA, KS, FL, VT, etc.

N904   373   **Date**   **O**   **DT 6/6**

Date (YYMMDD)

1. When HL03 is code 4 (Care Group loop) and N901 is code F4, use to identify the IRB approval date.

2. When HL03 is code AS (Animal Subject loop) and N901 is code Y9, use to identify the IACUC approval date.

3. When N901 is code 6M, use to identify the date approved by the reviewing organization.

Not Used   **N905**   337   **Time**   **X**   **TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-

59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used   N906   623   Time Code   O   ID 2/2
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Not Used   N907   C040   Reference Identifier   O

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used   C04001   128   Reference Identification Qualifier   M   ID 2/3
Code qualifying the Reference Identification

Not Used   C04002   127   Reference Identification   M   AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used   C04003   128   Reference Identification Qualifier   X   ID 2/3
Code qualifying the Reference Identification

Not Used   C04004   127   Reference Identification   X   AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used   C04005   128   Reference Identification Qualifier   X   ID 2/3
Code qualifying the Reference Identification

Not Used   C04006   127   Reference Identification   X   AN 1/30
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**L11** Business Instructions
Position:	105
Loop:	N9
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify instructions in this business relationship
Syntax Notes:	1 At least one of L1101 or L1103 is required.
	2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:	
Comments:	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
L1101	**127**	**Reference Identification**	**X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Ref. Des.	Data Element	Name	Attributes
L1102	**128**	**Reference Identification Qualifier**	**X ID 2/3**

Code qualifying the Reference Identification

ZS   Software Application Number

Use to indicate the brand name of the spreadsheet software and its version and release number. For example, Excel 4.0.

Ref. Des.	Data Element	Name	Attributes
Not Used **L1103**	**352**	**Description**	**X AN 1/80**

A free-form description to clarify the related data elements and their content

	Segment:	**MTX** Text
	Position:	110
	Loop:	N9
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To specify textual data
	Syntax Notes:	**1** If MTX01 is present, then MTX02 is required.
		2 If MTX03 is present, then MTX02 is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
Not Used **MTX01**	**363**	**Note Reference Code**	**O**	**ID 3/3**
		Code identifying the functional area or purpose for which the note applies		
Must Use **MTX02**	**1551**	**Message Text**	**X**	**AN 1/4096**
		To transmit large volumes of message text		
MTX03	**1551**	**Message Text**	**O**	**AN 1/4096**
		To transmit large volumes of message text		
Not Used **MTX04**	**934**	**Printer Carriage Control Code**	**O**	**ID 2/2**
		A field to be used for the control of the line feed of the receiving printer		

Segment:	**INX** Index Detail	
Position:	120	
Loop:	INX	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify an index	
Syntax Notes:	**1**	If either C03602 or C03603 is present, then the other is required.
	2	At least one of C03602 or C03604 is required.
	3	If either C03604 or C03605 is present, then the other is required.
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	INX01	1550	**Index Qualifier**	**M**	**ID 1/2**

Code identifying an index

1. Use code 1 or 2 once per matrix to indicate the start of the matrix. Use multiple iterations as needed citing codes 3 or 4 to define additional cell ranges to be loaded within a single matrix.

2. In an absolute reference (codes 1 and 3) use the alphanumeric identifiers (e.g., A1) in INX02-2 and INX02-3 to identify the range of cells to be loaded.

3. In a relative reference (codes 2 and 4), use the alphanumeric identifier, e.g., B3, in INX02-2 to identify the specific cell to start at and in INX02-3, provide a count of cells to load starting from that location.

*4. EXAMPLE OF AN ABSOLUTE LOAD PATTERN LOADING 15 CELLS (A1...E1, A2...E2, A3...E3): INX*1*1:A1:E3 n/l*

*5. EXAMPLE OF A RELATIVE LOAD PATTERN THAT STARTS AT CELL B3 AND LOADS 3 CELLS TOP TO BOTTOM: INX*2*3:B3:3 n/l*

1	Matrix Start - Absolute Reference
2	Matrix Start - Relative Reference
3	Matrix Continuation - Absolute Reference
4	Matrix Continuation - Relative Reference

	Ref. Des.	Data Element	Name		Attributes
Must Use	INX02	C036	**Index Identification**	**M**	

To identify an index

	C03601	1395	**Configuration Type Code**	**O**	**ID 1/1**

Code defining how information is being grouped or arrayed

Use to indicate the pattern of loading the cells.

1	Horizontal, Left to Right
2	Horizontal, Right to Left
3	Vertical, Top to Bottom
4	Vertical, Bottom to Top
5	Individual Cell

	C03602	127	**Reference Identification**	**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

In either an absolute or relative reference, use to identify the cell that begins the range of a load operation, e.g., B3.

| C03603 | 127 | Reference Identification | X | AN 1/30 |

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When INX01 is code 1 or 3 (absolute reference), use to describe the cell which ends this iteration of the load operation, e.g., E3.

2. When INX01 is code 2 or 4 (relative reference), use to provide a count of the number of cells from the specified start to be loaded.

| C03604 | 863 | X-Peg | X | R 1/6 |

Horizontal distance from the edge to the center of the peg hole (measured from the left)

Use only when INX02-1 is code 5 (individual cell) to identify the column letter of a single cell to be loaded.

| C03605 | 864 | Y-Peg | X | R 1/6 |

The vertical distance from the edge to the center of the peg hole as specified by the peg code

Use only when INX02-1 is code 5 (individual cell) to identify the row number of a single cell to be loaded.

Segment:	**K3** File Information	
Position:	130	
Loop:	INX	
Level:	Detail	
Usage:	Mandatory	
Max Use:	>1	
Purpose:	To transmit a fixed-format record or matrix contents	
Syntax Notes:		
Semantic Notes:	1	K303 identifies the value of the index.
Comments:	1	The default for K302 is content.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	K301	449	**Fixed Format Information**	**M**	**AN 1/80**
			Data in fixed format agreed upon by sender and receiver		
			Use to identify the cell contents.		
Not Used	K302	1333	**Record Format Code**	**O**	**ID 1/2**
			Code specifying the format of information		
Not Used	K303	C001	**Composite Unit of Measure**	**O**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
Not Used	C00101	355	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00102	1018	**Exponent**	**O**	**R 1/15**
			Power to which a unit is raised		
Not Used	C00103	649	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value		
Not Used	C00104	355	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00105	1018	**Exponent**	**O**	**R 1/15**
			Power to which a unit is raised		
Not Used	C00106	649	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value		
Not Used	C00107	355	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00108	1018	**Exponent**	**O**	**R 1/15**
			Power to which a unit is raised		
Not Used	C00109	649	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	**Exponent**	**O**	**R 1/15**
			Power to which a unit is raised		
Not Used	C00112	649	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

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Not Used	C00114	1018	**Exponent**	**O**	**R**	**1/15**

Power to which a unit is raised

Not Used	C00115	649	**Multiplier**	**O**	**R**	**1/10**

Value to be used as a multiplier to obtain a new value

Segment:	**PPL** Price Support Data		
Position:	170		
Loop:	PPL		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To provide information about pricing support		
Syntax Notes:			
Semantic Notes:	**1**	PPL02 is the start date.	
	2	PPL03 is the end date.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Not Used	PPL01	1309	**Acquisition Data Code** Code identifying acquisition data	O ID 2/2
Not Used	PPL02	373	**Date** Date (YYMMDD)	O DT 6/6
Not Used	PPL03	373	**Date** Date (YYMMDD)	O DT 6/6
	PPL04	352	**Description** A free-form description to clarify the related data elements and their content	O AN 1/80

1. In one iteration of this PPL segment within the Project and any Subproject and Consortium loops, the letter T is REQUIRED to indicate the total project price. When instructed in the solicitation or announcement, also provide the project totals by category.

2. When data is being provided by budget period in additional PPL segment iterations, cite 1, 2, 3, etc. to identify the budget periods.

Must Use	PPL05	1401	**Proposal Data Detail Identifier Code** Code identifying the basis of a cited value in a proposal	O ID 1/3

Use to indicate whether the values in PD/PDD are the actual unadjusted cost for the budget item without reductions to accommodate nonFederal cost sharing contributions or the requested cost for the budget item with reductions to accommodate nonFederal cost sharing contributions.

AA   Actual Amount

Use to indicate that the values in PD/PDD are the actual unadjusted cost for the budget item. No reductions have been made to accommodate nonFederal cost sharing contributions (code 88).

AC   Negotiated Amount

Use to indicate that the values in PD/PDD are the requested cost for the budget item. Reductions have been made to accommodate nonFederal cost sharing contributions (code 88).

Segment:	**PD** Pricing Data
Position:	190
Loop:	PD
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To describe the pricing basic input detail
Syntax Notes:	
Semantic Notes:	**1** PD01 is the unit of the time period contained in PD02.
	2 PD02 is the date of the start of the time period in PD01.
	3 PD04 is the quantity of the unit of measurement in PD03.
	4 PD05 is the name of the cost element being proposed.
	5 PD06 is the description of the name of the cost element being proposed.
	6 PD08 is a reference to a specific paragraph number contained in an external document.
	7 PD09 is the category of the data being proposed.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PD01	344	**Unit of Time Period or Interval**	**M ID 2/2**

Code indicating the time period or interval

1. Cite the appropriate code to indicate the period defined for this budget category.

2. For budget categories where a period is NOT applicable (e.g., supplies, equipment), cite code CC in order to meet the X12 syntax requirements of this data element.

AP	Academic Period	
CC	Cycles	
	Periodic cycling of extreme levels of a variable	

Use to indicate a budget period not described by another code.

CY	Calendar Year
SP	Summer Period

	Ref. Des.	Data Element	Name	Attributes
Must Use	PD02	373	**Date**	**M DT 6/6**

Date (YYMMDD)

Use is REQUIRED to identify the beginning date for the period indicated in PD01.

	Ref. Des.	Data Element	Name	Attributes
Must Use	PD03	C001	**Composite Unit of Measure**	**M**

To identify a composite unit of measure (See Figures Appendix for examples of use)

	Ref. Des.	Data Element	Name	Attributes
Must Use	C00101	355	**Unit or Basis for Measurement Code**	**M ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

DO	Dollars, U.S.
P1	Percent

Use when the PD07 category requires a percentage (e.g., indirect charges, fringe benefits).

	Ref. Des.	Data Element	Name	Attributes
Not Used	C00102	1018	**Exponent**	**O R 1/15**

Power to which a unit is raised

	Ref. Des.	Data Element	Name	Attributes
Not Used	C00103	649	**Multiplier**	**O R 1/10**

Value to be used as a multiplier to obtain a new value

| | C00104 | 355 | **Unit or Basis for Measurement Code** | **O** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Use, if applicable, only when PD03-1 is code DO.

| | 8S | Session |

Use to indicate the individual's or labor category's base salary for the period specified in PD01, i.e., year, academic period, etc.

| | HR | Hours |

Use to indicate an amount priced on an hourly basis.

| | MO | Months |

Use to indicate an amount priced on a monthly basis.

| | YR | Years |

Use to indicate an amount priced on an annual basis.

| Not Used | C00105 | 1018 | **Exponent** | **O** | **R 1/15** |

Power to which a unit is raised

| Not Used | C00106 | 649 | **Multiplier** | **O** | **R 1/10** |

Value to be used as a multiplier to obtain a new value

| Not Used | C00107 | 355 | **Unit or Basis for Measurement Code** | **O** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Not Used | C00108 | 1018 | **Exponent** | **O** | **R 1/15** |

Power to which a unit is raised

| Not Used | C00109 | 649 | **Multiplier** | **O** | **R 1/10** |

Value to be used as a multiplier to obtain a new value

| Not Used | C00110 | 355 | **Unit or Basis for Measurement Code** | **O** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Not Used | C00111 | 1018 | **Exponent** | **O** | **R 1/15** |

Power to which a unit is raised

| Not Used | C00112 | 649 | **Multiplier** | **O** | **R 1/10** |

Value to be used as a multiplier to obtain a new value

| Not Used | C00113 | 355 | **Unit or Basis for Measurement Code** | **O** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

| Not Used | C00114 | 1018 | **Exponent** | **O** | **R 1/15** |

Power to which a unit is raised

| Not Used | C00115 | 649 | **Multiplier** | **O** | **R 1/10** |

Value to be used as a multiplier to obtain a new value

| Must Use | PD04 | 380 | **Quantity** | **M** | **R 1/15** |

Numeric value of quantity

1. When PD03-4 is 8S, use to identify the individual's or labor category's base salary for the period specified in PD01.

2. When PD03-4 is code HR, MO, or YR, use to identify the related amount (dollars/hour, dollars/month, dollars/year) applicable to the budget category, e.g., labor, rentals, services, etc.

3. When PD03-1 is code P1, use to identify a percentage rate (e.g., fringe benefits and indirect costs). Cite 50% as 50; cite 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).

4. When PD03-1 code DO and PD03-4 is not used, use to indicate a discrete

amount is specified in PDD03. Cite 1 to meet the rules of X12 syntax. This PD04 value of 1 should not be used by the receiving application.

Must Use	PD05	93	**Name**	**M**	**AN 1/35**

Free-form name

1. Use is REQUIRED to identify a budget category by a "short-hand" or coded means.

2. If desired, this name can be taken from the organization's cost accounting system.

	PD06	352	**Description**	**O**	**AN 1/80**

A free-form description to clarify the related data elements and their content

When PD05 carries a short-hand description taken from a cost accounting system that is not readily understandable, use to identify the budget category in a free-form text "long-hand" description. A "long-hand" description only needs to be provided the first time the "short-hand" name is used.

Must Use	PD07	1196	**Breakdown Structure Detail Code**	**O**	**ID 2/2**

Codes identifying details relating to a reporting breakdown structure tree

Use to identify the budget category or aggregated costs applicable to this PD loop.

01   Labor

Direct labor costs

Use to indicate direct labor wage/salary. Aggregate direct labor wage/salary into Total Direct Labor (code 70).

03   Other Direct Costs (ODC)

Other costs associated with a contract such as freight, travel, postage

Use to indicate the Total Other Direct Costs. This is the sum of codes 04, 39, 43, 46, 55, 80, 81, 82, 86, 87, and ZZ. Aggregate this sum into Total Direct Costs (code 84).

04   Subcontract

Direct subcontract

1. When HL03 is code PC (Project loop), use to indicate the sum of all subawards within the Project. Aggregate into Total Other Direct Costs (code 03).

2. When HL03 is code SP (Sub-project loop) or CO (consortium loop), use to indicate subcontracts and second-tier consortium contracts budgeted within this loop. Aggregate into Total Other Direct Costs (code 03).

06   Labor Overhead

Indirect costs associated with direct labor

Use to indicate Labor Overhead (excludes fringe benefits). Aggregate into Total Indirect Costs (code 09).

09   Total Overhead

Total of all indirect costs incurred on a contract

Use to indicate the Total Indirect Costs. This is either the sum of Labor Overhead (code 06) and General and Administrative (G&A) (code 33) or a discrete amount. Aggregate into Total Cost (code 38).

18	Funds Appropriation	
	Coding to track the source of funds (such as various goverement agencies)	
	Use to indicate a cash contribution. Aggregate all cash contributions in Total Contribution (code 88).	
28	Total	
	Use to indicate the Total Amount Requested. This is the sum of the Total Cost (code 38) and any applicable Profit or Fee (code 35). Aggregate into Total Project Cost (code 36).	
33	General & Administrative	
	Aggregate into Total Indirect Costs (code 09).	
35	Profit or Fee	
	Use in SBIR, STTR, and other appropriate applications to indicate a fixed-fee. Aggregate into Total Amount Requested (code 28).	
36	Total Price	
	Use to indicate the Total Project Cost. Total Project Cost is the sum of Total Amount Requested (code 28) and the Cost Sharing contribution (code 88).	
38	Total Cost Plus General & Administrative	
	Use to indicate Total Cost. This is the sum of Total Direct Costs (code 84) and Total Indirect Costs (code 09). Aggregate into Total Amount Requested (code 28).	
39	Other Costs	
	Use to indicate items within Other Direct Costs that are not identified by a specific code. Aggregate into Total Other Direct Costs (code 03).	
42	Purchased Equipment	
	Use to indicate the acquisition of permanent equipment. Aggregate into Total Purchased Equipment (code 72).	
43	Materials and Purchased Items	
	Use to indicate total material and supplies. Do not itemize the individual items. Aggregate into Total Other Direct Costs (code 03).	
46	Commercial Effort	
	Use to indicate costs associated with ancillary service contracts. Aggregate into Total Other Direct Costs (code 03).	
48	Indirect Labor	
	Use to indicate Total Fringe Benefits. This is the sum of all Employee Benefits (code 49). Aggregate into Total Labor Costs (code 71).	
49	Employee Benefits	
	Use to indicate individual or labor category fringe benefits. Aggregate into Total Fringe Benefits (code 48).	

52		Communications and Travel
		Use to indicate Total Travel. This is the sum of domestic travel (code 73) and foreign travel (code 74). Aggregate into Total Direct Costs (code 84).
55		Facilities - Furniture and Equipment
		Use to indicate the cost of equipment maintenance. Aggregate into Total Other Direct Costs (code 03).
56		Administration
		Use to indicate Participant insurance. Aggregate into Participant Total Costs (code 79).
58		Credits
		Use to indicate participant fees. Aggregate into Participant Total Costs (code 79).
70		Total Salaries and Wages
		Use to indicate Total Direct Labor. This is the sum of all Labor (code 01). Aggregate into Total Labor Costs (code 71).
71		Total Salaries and Wages and Employee Benefits
		Use to indicate Total Labor Costs. This is the sum of Total Direct Labor Costs (code 70) and Total Fringe Benefits (code 48). Aggregate into Total Direct Costs (code 84).
72		Total Purchased Equipment
		Use to indicate Total Purchased Equipment. This is the sum of all Purchased Equipment (code 42). Aggregate into Total Direct Costs (code 84).
73		Travel - Domestic
		Aggregate into Total Travel (code 52).
74		Travel - Foreign
		Aggregate into Total Travel (code 52).
75		Participant Stipends
		Aggregate into Participant Total Costs (code 79).
76		Participant Tuition & Fees
		Use to indicate participant tuition. Aggregate into Participant Total Costs (code 79).
77		Participant Travel
		Aggregate into Participant Total Costs (code 79).
78		Participant Other
		Includes training related expenses. Aggregate into Participant Total Costs (code 79).
79		Participant Total
		Use to indicate Participant Total Costs. This is the sum of codes 56, 58, 75, 76, 77, 78, and EX. Aggregate into Total Direct Costs (code 84).
80		Publication Costs
		Aggregate into Total Other Direct Costs (code 03).
81		Consultant Services
		Aggregate into Total Other Direct Costs (code 03).

	82	Computer Automated Data Processing (ADP) Services
		Aggregate into Total Other Direct Costs (code 03).
	83	Funding From Non-Federal Sources
		Use to indicate an in-kind contribution. Aggregate all in-kind contributions in Total Contribution (code 88).
	84	Total Direct Costs
		Use to indicate Total Direct Costs. This is the sum of codes 03, 52, 71, 72, 79, 85 and BL. Aggregate into Total Costs (code 38).
	85	Human Subject Costs
		Use to indicate the total inpatient costs. Aggregate into Total Direct Costs (code 84).
	86	Animal Costs
		Aggregate into Total Other Direct Costs (code 03).
	87	Alternations and Renovations
		Aggregate into Total Other Direct Costs (code 03).
	88	Cost Sharing
		1. Use to indicate the grant applicant organization's Total Contribution to the project; this includes cash (code 18) and in-kind contributions (code 83) from non-Federal sources.
		2. When PPL05 is code AA, this is a negative amount.
		3. When PPL05 is code AC, this is a positive amount.
	BL	Billings
		Use to indicate the total outpatient costs. Aggregate into Total Direct Costs (code 84).
	EX	Expenditures
		Use to indicate participant subsistence. Aggregate into Participant Total Costs (code 79).
	ZZ	Mutually Defined
		Use to indicate rent/lease of equipment/facilities. Aggregate into Total Other Direct Costs (code 03).

PD08   127   **Reference Identification**   **O**   **AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When PD07 is code 01 or 49, and PD09 is a project role, use is REQUIRED to identify the name of the individual. Use of last name, first name and middle initial is preferred. Place a space between the name components.

2. When PD07 is code 01 or 49 and PD09 is a labor category, use is REQUIRED to identify the number of persons budgeted within that category. In addition to project employee categories, this includes categories for trainees, participants, and consultants.

3. For other PD07 categories, use as needed to identify a named individual to whom the cost pertains

PD09   352   **Description**   **O**   **AN 1/80**

A free-form description to clarify the related data elements and their content

1. When PD07 is code 01 or 49, use is REQUIRED to identify the project role of the individual named in PD08 or a labor category. For labor categories, include words that describe the type of personnel (e.g., graduate students, donors, speakers, trainees, participants, clerical support, lab technicians) and identify the number of persons budgeted within the category in PD08.

2. When PD07 is code 73, or 74, use to identify the destination for the travel.

3. When PD07 is code 42, use is REQUIRED to identify the nomenclature of the equipment being purchased.

4. When PD07 is code 18 or 83, use as needed to identify the source of the contribution, e.g., applicant, state, county, etc.

5. For other PD07 categories, use as needed to provide additional information necessary to describe the category.

4. For other categories, use to provide additional information necessary to describe the category, as needed, including the identification of a named individual to whom the cost pertains.

Not Used   PD10   1401   Proposal Data Detail Identifier Code   O   ID 1/3
Code identifying the basis of a cited value in a proposal

Segment:	**PDD** Pricing Data Detail
Position:	200
Loop:	PD
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To provide the rates, direct input, and pricing factors for each element of work, cross-referenced to an applicable request or submission
Syntax Notes:	1 At least one of PDD02 PDD03 or PDD04 is required.
Semantic Notes:	1 PDD01 is a sequential number assigned by the initiator.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	PDD01	350	**Assigned Identification**	M	AN 1/20

Alphanumeric characters assigned for differentiation within a transaction set

Use is REQUIRED to identify the number of months in the period specified in PD01.

	PDD02	380	**Quantity**	X	R 1/15

Numeric value of quantity

1.   When PD03-1 is code P1, use to indicate the base amount in dollars.

2.   When PD03-1 is code DO and PD03-4 is code 8S, use to indicate the level of effort in months for the period.

3.   When PD03-1 is code DO and PD03-4 is code HR, MO, or YR, use to indicate the quantity of the time units applicable to the rate in PD04.

4.   When PD07 is code 79, use to identify the total quantity of subjects.

5.   When PD07 is code 42, use to identify the quantity of items being purchased, if applicable.

6.   When PD07 is code 73 or 74, use to identify the total quantity of trips.

Must Use	PDD03	782	**Monetary Amount**	X	R 1/15

Monetary amount

1.   Use to identify the amount requested for the budget category in PD07.

2.   When PD07 is code 83 or 88, use to identify the amount contributed.

3.   When PD03-1 is code P1, identify the product of the rate in PD04 times the base amount in PDD02.

	PDD04	954	**Percent**	X	R 1/10

Percentage expressed as a decimal

When PD03-1 is code DO and PD03-4 is code 8S, use with key personnel to indicate their average level of effort for the period.   Cite 50% as 50; cite 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).

Not Used	PDD05	1401	**Proposal Data Detail Identifier Code**	O	ID 1/3

Code identifying the basis of a cited value in a proposal

Segment:	**LX** Assigned Number
Position:	330
Loop:	LX
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To reference a line number in a transaction set
Syntax Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	LX01	554	Assigned Number	M N0 1/6
			Number assigned for differentiation within a transaction set	

In the first iteration of this LX loop, cite 1. In each subsequent iteration, increment by 1.

Segment:	**NM1** Individual or Organizational Name	
Position:	340	
Loop:	LX	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To supply the full name of an individual or organizational entity	
Syntax Notes:	**1**	If either NM108 or NM109 is present, then the other is required.
	2	If NM111 is present, then NM110 is required.
Semantic Notes:	**1**	NM102 qualifies NM103.
Comments:	**1**	NM110 and NM111 further define the type of entity in NM101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	NM101	98	**Entity Identifier Code**	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

> 17   Consultant's Office

> *When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop), use multiple occurrences as needed to indicate the name of a consultant. DO NOT USE if the consultant is identified as a key person (code 9K).*

> 1P   Provider

> *When HL03 is code SP (Sub-project loop), or CO (Consortium loop), use to indicate the organization responsible for the Subproject or Consortium if different from the organization submitting the application (NM101 code SE in the 1/NM1/090 segment).*

> 20   Foreign Supplier

> *When 2/YNQ/090 is code H1, use multiple iterations as needed to indicate foreign organizations participating in the application.*

> 61   Performed At

> The facility where work was performed

> *1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or OS (Other Support loop), use multiple iterations as needed to indicate the location(s) where project work will be performed if different from or in addition to the location identified by NM101 code 1P or NM101 code SE in the 1/NM1/090 segment.*

> *2. When HL03 is code PD (Procedure loop), use to indicate the hospital where in-patient care group members will receive care or out-patient procedures will be performed.*

> *3. When HL03 is code AS (Animal Subject loop), use is REQUIRED to indicate the facility where the tests will be conducted or where animals will be housed.*

> 75   Participant

> *When HL03 is code CO (Consortium loop), use multiple iterations as needed to indicate the*

participating organizations within the consortium in addition to the organization identified by NM101 code 1P.

92   Support Party

The organization supporting the resolution of an investigation

When HL03 is code OS (Other Support loop), use is REQUIRED to identify the active, pending, or planned support organization.

9K   Key Person

When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), 26 (Key Person loop), or IB (Previous Award loop), use to indicate a project Key Person.

9P   Investigator

1. When HL03 is code PC (Project loop) or IB (Previous Award loop), use is REQUIRED to indicate the Principal Investigator. There can only be one Principal Investigator in the PC or IB loop.

2. When HL03 is code OS (Other Support loop) and the individual in the parent Key Person loop is not the Other Support project principal investigator, use to identify the principal investigator's name.

3. This code may only be used when HL03 is code PC, IB, or OS.

9S   Co-Investigator

When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop), use to indicate a co-investigator.

AZ   Previous Name

When HL03 is code IB (Previous Award loop), use to indicate a predecessor principal investigator in the previous award.

EY   Employee Name

1. When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), or IB (Previous Award loop), use to indicate employees (nonclerical) other than principal and co-investigators and Key Personnel.

2. For Previous Award loops, cite each employee by individual name.

K8   Filing Location

When HL03 is code PC (Project loop), SP (Sub-project loop), CO (Consortium loop), use to indicate the Department of Health and Human Services (DHHS) regional office or other organization with whom the indirect rate has been negotiated.

Must Use NM102   **1065**   **Entity Type Qualifier**   **M   ID 1/1**

Code qualifying the type of entity

1   Person

Use is REQUIRED with NM101 code 17, 9K, 9P, 9S, AZ, and EY.

			2	Non-Person Entity		

Use is REQUIRED with NM101 codes 1P, 20, 61, 75, 92, and K8.

	NM103	1035	**Name Last or Organization Name**	O	AN 1/35

Individual last name or organizational name

	NM104	1036	**Name First**	O	AN 1/25

Individual first name

	NM105	1037	**Name Middle**	O	AN 1/25

Individual middle name or initial

	NM106	1038	**Name Prefix**	O	AN 1/10

Prefix to individual name

	NM107	1039	**Name Suffix**	O	AN 1/10

Suffix to individual name

	NM108	66	**Identification Code Qualifier**	X	ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.

	1	D-U-N-S Number, Dun & Bradstreet

Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.

	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix

Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.

	10	Department of Defense Activity Address Code (DODAAC)

Use to indicate a DoD or Civilian Agency Activity Address.

	33	Commercial and Government Entity (CAGE)

Use to indicate the specified organization's CAGE code.

	NM109	67	**Identification Code**	X	AN 2/20

Code identifying a party or other code

Not Used	NM110	706	**Entity Relationship Code**	X	ID 2/2

Code describing entity relationship

Not Used	NM111	98	**Entity Identifier Code**	O	ID 2/2

Code identifying an organizational entity, a physical location, or an individual

Segment: **N2** **Additional Name Information**
Position: 350
Loop: LX
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	N201	93	**Name**	**M**	**AN 1/35**
			Free-form name		
	N202	93	**Name**	**O**	**AN 1/35**
			Free-form name		

Segment:	**N3** Address Information	
Position:	360	
Loop:	LX	
Level:	Detail	
Usage:	Optional	
Max Use:	2	
Purpose:	To specify the location of the named party	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N301	166	**Address Information** Address information	M	AN 1/35
	N302	166	**Address Information** Address information	O	AN 1/35

Segment:	**N4** Geographic Location	
Position:	370	
Loop:	LX	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the geographic place of the named party	
Syntax Notes:	1	If N406 is present, then N405 is required.
Semantic Notes:		
Comments:	1	A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
	2	N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
		Use is REQUIRED when NM101 is code 20 and the organization is not identified by a qualified number in NM108/09.		
N405	309	Location Qualifier	X	ID 1/2
		Code identifying type of location		
		CY County/Parish		
		When NM101 is code 61, use to indicate the county in which the project will be performed as specified in the Federal Agency grant application instructions.		
N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment:	**PER** Administrative Communications Contact	
Position:	375	
Loop:	LX	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To identify a person or office to whom administrative communications should be directed	
Syntax Notes:	1	If either PER03 or PER04 is present, then the other is required.
	2	If either PER05 or PER06 is present, then the other is required.
	3	If either PER07 or PER08 is present, then the other is required.
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	PER01	366	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			IC Information Contact		
Not Used	PER02	93	**Name**	**O**	**AN 1/35**
			Free-form name		
Must Use	PER03	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		

1. Use to identify the preferred method of communication in the first occurrence. Use PER05/06 and PER07/08 to identify additional communications numbers.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

			EM Electronic Mail		
			FX Facsimile		

Include area code and number.

			IT International Telephone		

Include country and city codes as needed.

			TE Telephone		

Include area code and number.

Must Use	PER04	364	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
	PER05	365	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		

1. Use to identify an alternate, or secondary, communications number which can be used to contact the specified POC.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

	EM	Electronic Mail		
	EX	Telephone Extension		

Use only if PER03 cites the code TE.

	FX	Facsimile

Include area code and number.

	IT	International Telephone

Include country and city codes as needed.

	TE	Telephone

Include area code and number.

	PER06	**364**	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

	PER07	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**

Code identifying the type of communication number

1. Use to identify a third communications number.

2. All numbers, other than those associated with code EM, shall be transmitted as a continuous number with no extraneous characters.

	EM	Electronic Mail
	EX	Telephone Extension

Use only if PER05 cites code TE.

	FX	Facsimile

Include area code and number.

	IT	International Telephone

Include country and city codes as needed.

	TE	Telephone

Include area code and number.

	PER08	**364**	**Communication Number**	**X**	**AN 1/80**

Complete communications number including country or area code when applicable

Not Used	**PER09**	**443**	**Contact Inquiry Reference**	**O**	**AN 1/20**

Additional reference number or description to clarify a contact number

Segment:	**DMG** Demographic Information		
Position:	380		
Loop:	LX		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To supply demographic information		
Syntax Notes:	1	If either DMG01 or DMG02 is present, then the other is required.	
Semantic Notes:	1	DMG02 is the date of birth.	
	2	DMG07 is the country of citizenship.	
	3	DMG09 is the age in years.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DMG01	1250	**Date Time Period Format Qualifier**	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
Not Used	DMG02	1251	**Date Time Period**	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		
	DMG03	1068	**Gender Code**	O	ID 1/1
			Code indicating the sex of the individual		

    F   Female

    M   Male

Not Used	DMG04	1067	**Marital Status Code**	O	ID 1/1
			Code defining the marital status of a person		
	DMG05	1109	**Race or Ethnicity Code**	O	ID 1/1

Code indicating the racial or ethnic background of a person; it is normally self-reported; Under certain circumstances this information is collected for United States Government statistical purposes

    A   Asian or Pacific Islander

          Use only for Asian. Use code P for Pacific Islander.

    H   Hispanic

    I   American Indian or Alaskan Native

    N   Black (Non-Hispanic)

          A person having origins in any of the black racial groups of Africa who is not of Mexican, Puerto Rican, Cuban, or South or Central American origin or of any other Spanish culture or origin regardless of race

    O   White (Non-Hispanic)

          A person having origins in any of the original peoples of Europe, North Africa, or the Middle East who is not of Mexican, Puerto Rican, Cuban, or South or Central American origin or of any other Spanish culture or origin regardless of race

    P   Pacific Islander

	DMG06	1066	**Citizenship Status Code**	O	ID 1/2
			Code indicating citizenship status		

When HL03 is code PC (Project loop), SP (Sub-project loop) or CO (Consortium loop) and NM101 is code 9P or 9S, use is REQUIRED to provide citizenship status regarding the Principal Investigator and any Co-investigators.

		1	U.S. Citizen		
		2	Non-Resident Alien		
		3	Resident Alien		

Use to indicate the Principal Investigator or Co-investigator is not a US citizen but has been lawfully admitted to the US for permanent residence.

Not Used	DMG07	26	**Country Code**	O	**ID 2/3**
			Code identifying the country		
Not Used	DMG08	659	**Basis of Verification Code**	O	**ID 1/2**
			Code indicating the basis of verification		
Not Used	DMG09	380	**Quantity**	O	**R 1/15**
			Numeric value of quantity		

Segment:	**EMS** Employment Position	
Position:	390	
Loop:	LX	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To describe employment position	
Syntax Notes:	**1**	If either EMS05 or EMS06 is present, then the other is required.
Semantic Notes:	**1**	EMS01 describes the employee's title or position in text.
	2	EMS02 defines the employment position relationship.
	3	EMS03 defines the occupation category.
	4	EMS04 defines the status of employment.
	5	EMS05 identifies EMS06 as pay grade.
	6	EMS06 defines pay grade for employee, if available.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	EMS01	352	**Description**	M	AN 1/80
			A free-form description to clarify the related data elements and their content		

1. When HL03 is code PC and NM101 is code 9P or 9S, cite the nature of the disability if the Principal Investigator or Co-Investigator is disabled and cite code DS in EMS04.

2. When NM101 is code 17, 9K, or EY, identify the project role for the individual.

	Ref. Des.	Data Element	Name		Attributes
Not Used	EMS02	1176	**Employment Class Code**	O	ID 2/3
			Code indicating category of employee		
Not Used	EMS03	1149	**Occupation Code**	O	ID 4/6
			Code identifying the occupation of an individual		
	EMS04	584	**Employment Status Code**	O	ID 2/2
			Code showing the general employment status of an employee/claimant		
			DS Disabled		

When HL03 is code PC (Project loop) and NM101 is code 9P, use to indicate that the Principal Investigator is disabled.

	Ref. Des.	Data Element	Name		Attributes
Not Used	EMS05	128	**Reference Identification Qualifier**	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	EMS06	127	**Reference Identification**	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
Not Used	EMS07	127	**Reference Identification**	O	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**N9** Reference Identification		
Position:	400		
Loop:	N9		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier		
Syntax Notes:	1	At least one of N902 or N903 is required.	
	2	If N906 is present, then N905 is required.	
	3	If either C04003 or C04004is present, then the other is required.	
	4	If either C04005 or C04006 is present, then the other is required.	
Semantic Notes:	1	N906 reflects the time zone which the time reflects.	
	2	N907 contains data relating to the value cited in N902.	
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	N901	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

19   Division Identifier

When NM101 is code 9K, 9P, or 9S, use to indicate the major subdivision name of the individual's organization. For example, School of Engineering or Adhesive Products Division. Cite the name in N903.

5C   Congressional District

When NM101 is code 61, use to indicate the Congressional district in which the project is performed as specified in the Federal Agency grant application instructions. Use multiple iterations of this segment with code 5C if the work is performed in more than one Congressional district.

9F   Referral Number

When NM101 is code 17, use to indicate the number of days for consultation.

AH   Agreement Number

When HL03 is code PC (Project loop) and NM101 is code K8, use to indicate whether the indirect rate is current or pending. If the rate is current, cite CURRENT in N903 and the date in N904. If the rate is pending, cite PENDING in N903.

BD   Bid Number

1. When HL03 is code OS (Other Support loop) , NM101 is code 92, and the Other Support is pending or planned, cite the supporting organization's application number in N902, when known. Use the 2/MTX/410 segment to identify the project title.

2. When the pending or planned support is for the same as this application, cite the word SAME in N903 and do not use codes KA or YV.

CT   Contract Number

When HL03 is code OS (Other Support loop) , NM101 is code 92, and the Other Support is active, cite the

		supporting organization's award number in N902. Use the 2/MTX/410 segment to identify the project title.
DP	Department Number	
		When NM101 is code 9K, 9P, or 9S, use to indicate the department, service, laboratory, or equivalent level within the major subdivision name (code 19) of the individual's organization. For example, Department of Industrial Engineering or Sales Department. Cite the name in N903.
GE	Geographic Number	
		When NM101 is code 61, use to indicate a geographic location not otherwise identified. Cite the name of the location in N903 and, if required, provide the coordinates in N907. If needed, use N907-1 and N907-3 to pass longitude and latitude coordinates.
K5	Task Order	
		When HL03 is code OS (Other Support loop), use to indicate the goals of the other project. Cite the word GOALS in N903 and use the following 2/MTX/410 segment to provide the description.
L4	Proposal Paragraph Number	
	The place in a proposal where additional information can be found	
		1. When HL03 is code PC (Project loop), SP (Sub-project loop), or CO (Consortium loop) and NM101 is code 9P, 9K, or 9S, use to indicate the Grant Application paragraph number that describes the text that will appear in the 2/MTX/410 segment associated with the individual identified in the NM1 segment. This includes the individual's published articles when specific Federal Agency instructions direct that they be provided in free-text form.
P5	Position Code	
		When NM101 is code 17, 9K or EY, use is REQUIRED to indicate the job title of the individual. Cite the title in N903.
P6	Pipeline Number	
		When NM101 is code 61, use to indicate a pipeline designation. Provide the coordinates in N907. If needed, use N907-1 and N907-3 to pass longitude and latitude coordinates.
RC	Rail Routing Code	
		When NM101 is code 61, use to indicate a railway designation. When this code is used, the N4 segment is REQUIRED. Cite the owner of the railway in N903.
RU	Route Number	
		When NM101 is code 61, use to indicate a roadway designation, e.g., I-95, US Highway 1, State Route, 274. When this code is used, the N4 segment is REQUIRED. If needed, use N907-1 and N907-3 to pass mileage markers.
SY	Social Security Number	
		1. When HL03 is code PC (Project loop) and NM101 is code 9P or 9S, use to indicate the social security number of the Principal Investigator and any Co-

Investigators.

2. When HL03 is code IB (Previous Award loop) and NM101 is code 9K, 9P, 9S, or EY, use to indicate the social security number of the identified individual. Also use N903 to identify the level of effort and N904 to identify the date of birth.

	YV		Participating Area		

Use only when HL03 is code OS (Other Support loop) to indicate the overlap between the other project and the project being proposed. Cite the word OVERLAP in N903 and use the following 2/MTX/410 segment to provide an explanation of the overlap.

Must Use	N902	127	Reference Identification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

1. When N901 is code BD and there is no unique identification number associated with the application, cite NONE.

2. When N901 is code DP and NM101 is code 9K, 9P, or 9S, cite the school name, if applicable (for example, School of Engineering).

3. When N901 is code L4, cite the applicable Grant Application paragraph number from the following list:

Para #   Subject Area

D   Biographical
D.1   Experience
D.2   Employment History
D.3   Honors
D.4   Memberships/Associations
D.5   Publications

	N903	369	Free-form Description	X	AN 1/45

Free-form descriptive text

1. When N901 is code SY, use to identify the level of effort in support of the previous award. Cite in terms of a percentage, e.g., 50% (1/2 time) as 50; 50.25 % as 50.25 (note: leading and trailing zeros are suppressed).

2. When N901 is code GE, use is REQUIRED to identify the geographic location.

3. When N901 is code RC, use is REQUIRED to identify the owner of the railway.

	N904	373	Date	O	DT 6/6

Date (YYMMDD)

1. When HL03 is code IB (Previous Award loop) and N901 is code SY, use to indicate the individual's date of birth.

2. When HL03 is code PC (Project loop), N901 is code AH and N903 cites CURRENT, use to indicate the date of the indirect rate agreement.

Not Used	N905	337	Time	X	TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used	N906	623	Time Code	O	ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

	N907	**C040**	**Reference Identifier**		**O**	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Must Use	**C04001**	**128**	**Reference Identification Qualifier**		**M**	**ID 2/3**

Code qualifying the Reference Identification

       76   Milestone

A specific event that can be identified as occurring at a specific time

When N901 is code RU, use to indicate the roadway milepost associated with the location cited in N4.

       LK   Longitude expressed in Degrees, Minutes and Seconds

When N901 is code GE or P6, use to indicate the longitude for the location.

Must Use	**C04002**	**127**	**Reference Identification**		**M**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	C04003	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**

Code qualifying the Reference Identification

       76   Milestone

A specific event that can be identified as occurring at a specific time

When N901 is code RU, use to indicate a second roadway milepost associated with the location cited in N4, if needed.

       LQ   Latitude Expressed in Degrees, Minutes and Seconds

When N901 is code GE or P6, use to indicate the latitude for the location.

	C04004	**127**	**Reference Identification**		**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	C04005	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**

Code qualifying the Reference Identification

	C04006	**127**	**Reference Identification**		**X**	**AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**MTX** Text
Position:	410
Loop:	N9
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify textual data
Syntax Notes:	**1** If MTX01 is present, then MTX02 is required.
	2 If MTX03 is present, then MTX02 is required.
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Not Used	MTX01	363	**Note Reference Code**	O	**ID 3/3**
			Code identifying the functional area or purpose for which the note applies		
Must Use	MTX02	1551	**Message Text**	X	**AN 1/4096**
			To transmit large volumes of message text		
	MTX03	1551	**Message Text**	O	**AN 1/4096**
			To transmit large volumes of message text		
Not Used	MTX04	934	**Printer Carriage Control Code**	O	**ID 2/2**
			A field to be used for the control of the line feed of the receiving printer		

Segment:	**DEG** Degree Record	
Position:	420	
Loop:	DEG	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To provide the receiving institution or agency notice of academic awards made to the student whose record is being transmitted	
Syntax Notes:	1	If either DEG02 or DEG03 is present, then the other is required.
Semantic Notes:	1	DEG02 and DEG03 refer to the date the degree was awarded.
	2	DEG05 indicates the type of honors the student received with the degree.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	DEG01	1126	Academic Degree Code	M	ID 3/3

Code indicating the level of postsecondary academic award earned by a student

Use one of the following degree codes:

2.1   Postsecondary Certificate or diploma (less than one year)
2.2   Postsecondary Certificate or diploma (one year or more but less than four years)
2.3   Associate Degree (e.g., Associate in Science)
2.4   Baccalaureate Degree
2.5   Baccalaureate (Honors) Degree
3.1   First Professional Degree
3.2   Post-Professional Degree
4.1   Graduate Certificate
4.2   Master's Degree
4.3   Intermediate Graduate Degree
4.4   Doctoral Degree
4.5   Post-Doctoral Degree

	Ref. Des.	Data Element	Name	Attributes	
Must Use	DEG02	1250	Date Time Period Format Qualifier	X	ID 2/3

Code indicating the date format, time format, or date and time format

CM   Date in Format CCYYMM

Use to indicate the century, year, and month in which the degree was awarded.

	Ref. Des.	Data Element	Name	Attributes	
Must Use	DEG03	1251	Date Time Period	X	AN 1/35

Expression of a date, a time, or range of dates, times or dates and times

	Ref. Des.	Data Element	Name	Attributes	
	DEG04	352	Description	O	AN 1/80

A free-form description to clarify the related data elements and their content

Use to identify the type of degree (e.g., PHD, MD, DVM, JD, etc.) for the level of degree provided in DEG01.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	DEG05	641	Status Reason Code	O	ID 3/3

Code indicating the status reason

	Segment:	**FOS** Field of Study
	Position:	430
	Loop:	DEG
	Level:	Detail
	Usage:	Optional
	Max Use:	>1
	Purpose:	To provide the receiving institution or agency with information about the field of study associated with the academic awards made to the student whose record is being transmitted
	Syntax Notes:	1 If either FOS02 or FOS03 is present, then the other is required.
		2 At least one of FOS02 or FOS04 is required.
	Semantic Notes:	1 FOS02 and FOS03 are the student's program of study.
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	FOS01	1153	**Academic Field of Study Level or Type Code**	M	**ID 1/1**
			Code indicating the field of study being described for a student in an academic institution by indicating how it was used in the academic program		
			M Major		
	FOS02	66	**Identification Code Qualifier**	X	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			71 Integrated Postsecondary Education Data System (IPEDS) set of codes maintained by the U.S. Department of Education's National Center of Education Statistics, Washington, D.C.		
			CA Statistics Canada Canadian College Student Information System Course Codes		
			CC Statistics Canada University Student Information System Curriculum Codes		
	FOS03	67	**Identification Code**	X	**AN 2/20**
			Code identifying a party or other code		
	FOS04	352	**Description**	X	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			Use to identify the broad area of study (e.g., Chemistry or Physics), if not specifically identified in FOS03.		
	FOS05	352	**Description**	O	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			Use to identify an area of specialization within the broad area.		

Segment:		**N1** Name		
Position:		440		
Loop:		DEG		
Level:		Detail		
Usage:		Optional		
Max Use:		>1		
Purpose:		To identify a party by type of organization, name, and code		
Syntax Notes:		**1** At least one of N102 or N103 is required.		
		2 If either N103 or N104 is present, then the other is required.		
Semantic Notes:				
Comments:		**1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.		
		2 N105 and N106 further define the type of entity in N101.		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	N101	98	**Entity Identifier Code**	**M**	**ID 2/2**
			Code identifying an organizational entity, a physical location, or an individual		
			1R University, College or School		
	N102	93	**Name**	**X**	**AN 1/35**
			Free-form name		
			Use only if no coded means of identifying the educational institution is available.		
	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			While the Federal EDI program uses the DUNS and DUNS+4 number, other Government users of this implementation convention may require the use of other or additional numbers for a transition period in order to cross reference existing data bases.		
			1 D-U-N-S Number, Dun & Bradstreet		
			Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
			Use of the DUNS and DUNS+4 number is preferred over other codes to identify an entity.		
			10 Department of Defense Activity Address Code (DODAAC)		
			Use to indicate a DoD or Civilian Agency Activity Address.		
			33 Commercial and Government Entity (CAGE)		
			Use to indicate the specified organization's CAGE code.		
	N104	67	**Identification Code**	**X**	**AN 2/20**
			Code identifying a party or other code		
Not Used	N105	706	**Entity Relationship Code**	**O**	**ID 2/2**
			Code describing entity relationship		
Not Used	N106	98	**Entity Identifier Code**	**O**	**ID 2/2**
			Code identifying an organizational entity, a physical location, or an individual		

Segment:	**SE** Transaction Set Trailer	
Position:	480	
Loop:		
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)	
Syntax Notes:		
Semantic Notes:		
Comments:	**1** SE is the last segment of each transaction set.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SE01	96	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
Must Use	SE02	329	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set *Cite the same number as appears in ST02.*	M AN 4/9